# £5 REWARD

Will be paid to the first person who gives such information as shall lead to the discovery of the source of supplies of

# ELLIMAN'S EMBROCATIONS

When sold retail under the minimum prices.

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## ELLIMAN'S UNIVERSAL EMBROCATION

For Human Use under 1/- and 2/4, and

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For Horses, Cattle, and Dogs under 1/9, 2/2, and 3/-,

Can only be done by signing an agreement **not to do so** and then **breaking faith,** or by a Wholesaler supplying ELLIMAN'S EMBROCATION without first requiring an agreement to be signed, as all Wholesalers are pledged to secure agreements from every purchaser not to sell retail under the above prices.

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We engage not to disclose the names of those giving evidence upon the subject of

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# WHY DON'T YOU

Sell our **COFFEE ESSENCES?** They will never disgrace you (like the cheap and nasty imitations of them), as they are Pure and Strong; and thousands of persons—who also use ground coffee—**always keep a Bottle of our Essence** for a ready cup, or for flavouring purposes. They go well with other goods, and our previously large sales have been doubled within the last few years entirely by the co-operation of sensible tradesmen at home and abroad, notwithstanding attempted imitations of our labels, the unprincipled use of our name, and the copying of our Advertisements and Circulars—the penalty a successful Firm always has to pay. Our Coffee Essences have now the largest Sale in the World.

## SELL SYMINGTON'S "EDINBURGH" COFFEE ESSENCES,

which are prepared (under the personal superintendence of those possessing the necessary chemical and technical knowledge) from the Best raw materials, selected, roasted, and ground at our own Works.

**Always good alike—Pure—Cheap—Quite clear—No trouble—No waste.**

## THOMAS SYMINGTON & CO., EDINBURGH AND LONDON.

*If you do no business in our Goods, kindly show this to some friend who does.*

# 14—GOLD AND SILVER MEDALS—14

Have been Awarded the following Specialties of

## THOS. SYMINGTON & CO., EDINBURGH,

For Purity and Excellence of Quality:—

| | |
|---|---|
| Essence of Pure Coffee ... ... ... ... ... | In 6d., 1s., and 2s. Bottles. |
| Do. Coffee and Chicory... ... ... ... | In do. do. |
| Do. Dandelion Coffee ... ... ... ... | In 1s. and 2s. Bottles. |
| "Edinburgh" Coffee and Milk ... ... ... | In 1-lb. Tins. |
| "Edinburgh" Chocolate and Milk ... ... ... | In do. |
| "Edinburgh" Cocoa and Milk ... ... ... ... | In do. |
| Prepared Taraxacum (Dandelion) ... ... ... | In ¼ and ½ lb. Tins. |
| Do. do. with Pure Coffee ... ... | In do. do. |
| "Pyramid" Malt Extract ... ... ... ... | In 8-oz. (fluid) Bottles. |
| Do. do. with Cod Liver Oil ... | In do. do. |

# THOS. SYMINGTON & CO., 61 LEADENHALL ST., E.C.

**HEAD OFFICE AND WORKS—BEAVERBANK, EDINBURGH.**

# Fletchers' Concentrated Liquors

## Up to Date Opinion.

HASTINGS.

GENTLEMEN,

In reply to yours, I can only reiterate my former statement, "Your **Liquors** are PERFECTION."

Yours faithfully,

March 6, 1891. **J. TULLY.**

STOCKPORT.

GENTLEMEN,

In reply to your letter, I have pleasure in stating that I have found your **Concentrated Liquors** to be PERFECTLY SATISFACTORY.

Yours respectfully,

March 26, 1891. **THOMAS CLARKE.**

RUNCORN.

GENTLEMEN,

The **Concentrated Liquors** I had from you a short time since have given EVERY SATISFACTION, and I consider that no well-appointed Pharmacy should be without them.

Yours faithfully,

March 19, 1891. **J. H. WESTON.**

EASTBOURNE.

GENTLEMEN,

Your **Concentrated Liquors** have given me PERFECT SATISFACTION. I consider them infinitely superior to any Concentrated Infusions I have ever used. I can always reckon on having a clear Infusion when it is made from one of your **Liquors**, and equal in aroma to the freshly-made preparation.

Yours faithfully,

March 4, 1891. **E. C. WYNTER.**

BELFAST.

DEAR SIRS,

A short time ago we had an opportunity of making a number of Tinctures and Syrups from your **Concentrated Liquors.** WE HAVE NEVER SEEN ANYTHING AS YET TO EQUAL YOUR PREPARATIONS. They are, indeed, highly satisfactory.

Yours truly,

March 4, 1891. **CAMPBELL & CO.**

BERBICE.

DEAR SIRS,

We have used your **Concentrated Liquors** for some years, and FIND THEM AN IMMENSE SAVING to us in the Colony, as the heat causes our Syrups to ferment. We have often had large quantities that we imported spoiled on our hands. With your **Concentrated Liquors** we make them as wanted, besides saving an enormous amount in freight, bottles, &c.

Yours faithfully,

November 20, 1890. **ISAACSON & CO.**

DEVONPORT.

DEAR SIRS,

I have given your **Liquors** a thorough trial—indeed, I have used many of them for several years—and am much pleased to state that they are IN EVERY PARTICULAR PERFECTLY SATISFACTORY—namely strength, uniformity, purity, flavour, stability, and elegance of appearance. With regard to Syrups, I may say I have proved that it is absolutely necessary to use **Cane Sugar** in their preparation, if good appearance and stability are desired; and further, I find that the addition of 5 per cent. of Glycerine to the Syrup. Ferri Phosph. Co. keeps it from depositing almost indefinitely. I have now some in stock made over three years ago and it is quite bright and free from deposit.

Yours truly,

Feb. 24, 1891. **FRANCIS CODD, Ph.D.**

*Fletcher, Fletcher & Stevenson*, Manufacturing Chemists,

*Offices*:—21 Mincing Lane, E.C.

*Works*:—Holloway, London, N.

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Proprietors—R. D. Dixon, John Dowell, A. B. V. Taffs.

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# SPECIAL NOTICE.

H. G. & Sons beg to notify their customers, both at home and abroad, that the first issue of their

## ILLUSTRATED QUARTERLY PRICE LIST

took place in January last, and anyone connected with the Trade not receiving a copy, and desirous of doing so, can have same on application.

This List will be found to contain most of the goods and appliances in general use, with novelties and prices to date, which will be revised and added to in each quarterly issue.

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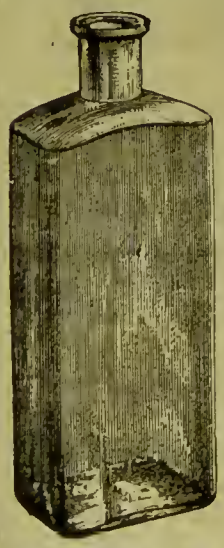
**Rd. No. 118583.**



### PRICES.

| 1 | 1½ | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 16 | 20 oz. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/0 | 10/0 | 10/0 | 11/6 | 11/6 | 12/9 | 12/9 | 20/6 | 20/6 | 23/6 | 30/0 | Green, per grs. |
| 10/9 | 10/9 | 11/6 | 12/6 | 13/0 | 15/6 | 15/6 | 24/0 | 24/0 | 27/0 | 34/6 | White, ,, |

**IN CRATES (about 6 Gross Assorted).**

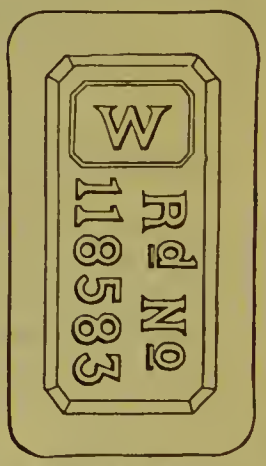
Not less than 1 gross of a size.

| 1 | 1½ | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 16 | 20 oz. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/6 | 9/6 | 9/6 | 10/9 | 10/9 | 11/9 | 11/9 | 19/0 | 19/0 | 21/6 | 27/0 | Green, per grs. |
| 10/3 | 10/3 | 11/0 | 12/0 | 12/6 | 14/9 | 14/9 | 23/0 | 23/0 | 26/0 | 33/6 | White, ,, |

CRATES AND CARRIAGE FREE.

**Casks for EXPORT are charged, but delivered F.O.B.**

NAME PLATES EXTRA, AT USUAL RATES.




FACSIMILE OF BOTTOM OF BOTTLE.

This Bottle is made with rounded corners without altering its flat surfaces, which not only adds to its appearance but reduces breakage to a minimum, *ensuring accurate capacity, simplifying labelling*, and producing a perfect appearance when wrapped.

**ANY OF THE ABOVE BOTTLES ARE SUPPLIED WITH FLAT, GLOBE, OR CUT GLOBE STOPPERS.**

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In 7, 14, and 28 lb. Tins, 1*s.*

## YELLOW FOSSILINE

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**N.B.—Both answer tests of Paraffinum Molle B. Ph. 1885.**

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ALSO

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1s. Bottles, 7s. 6d. doz.
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" POMADE, 6d. retail, 3s. 9d. per doz.; 1s. retail, 7s. 6d. doz.
" " white, 1s. Bottles, 8s. doz.

| | Soft unglazed Calico | Holland | Pure Calico | Flesh-coloured Cambric |
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| " PLASTERS, | 8s. | 10s. | 7s. 6d. | 10s. |

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The Proprietors of Kearsley's Original Widow Welch's Female Pills find it incumbent on them to caution the purchasers of these Pills against various imitations by parties who have no knowledge of their peculiar preparation, the Original Recipe having been sold to the late G. Kearsley, of Fleet Street, whose Widow found it necessary to make an affidavit, for the protection of her property, in the year 1798. The Genuine Recipe for **Widow Welch's Female Pills** has been prepared by them for **100 Years!** Chemists are particularly requested to remark that, as a testimony of authenticity, each bill of directions contains an affidavit, and bears the signature of "C. KEARSLEY," in writing, also engraved on the Government Stamp, and each box is wrapped in WHITE paper.

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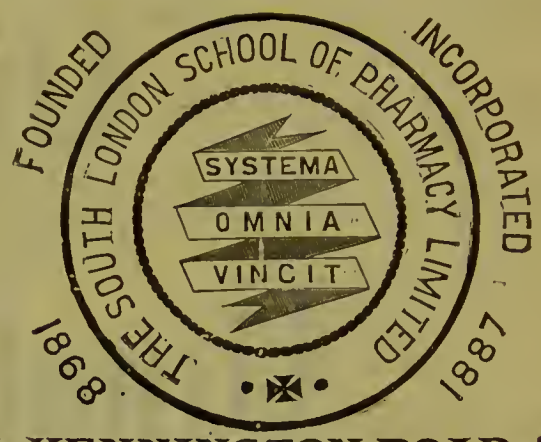


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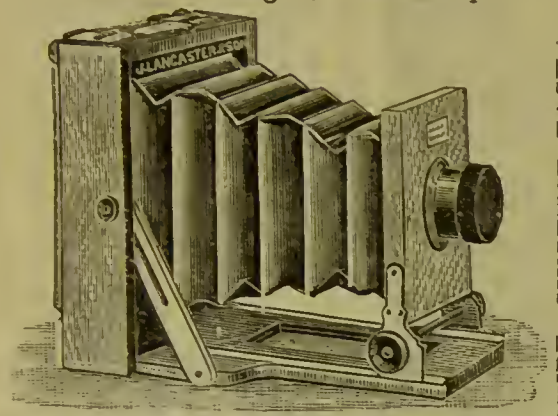


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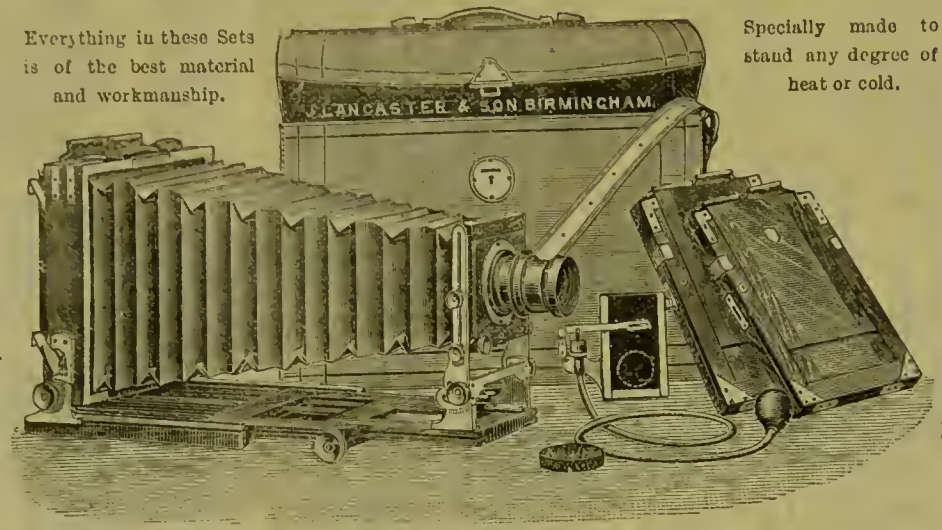


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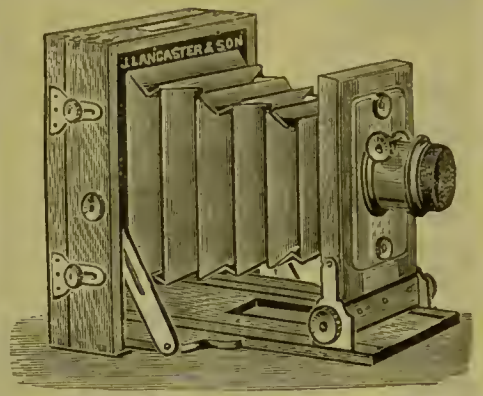


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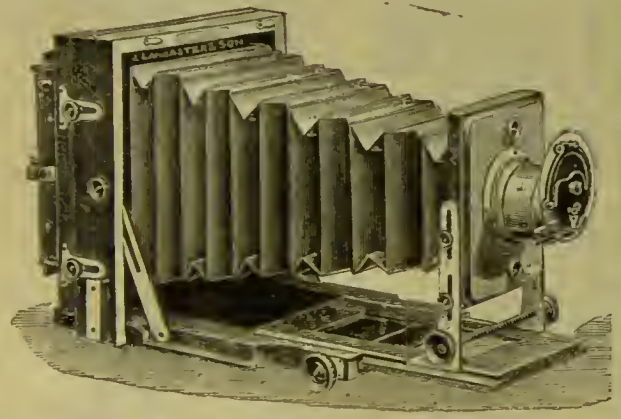

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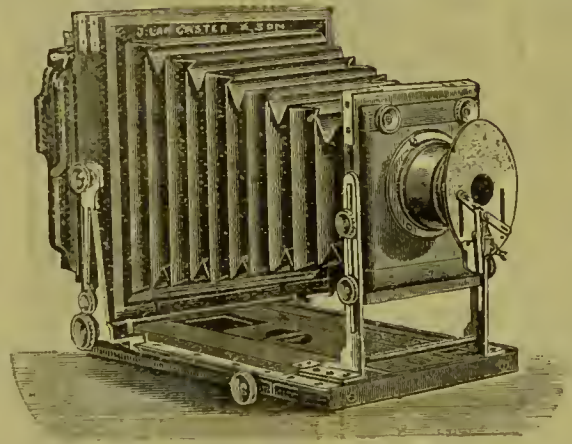

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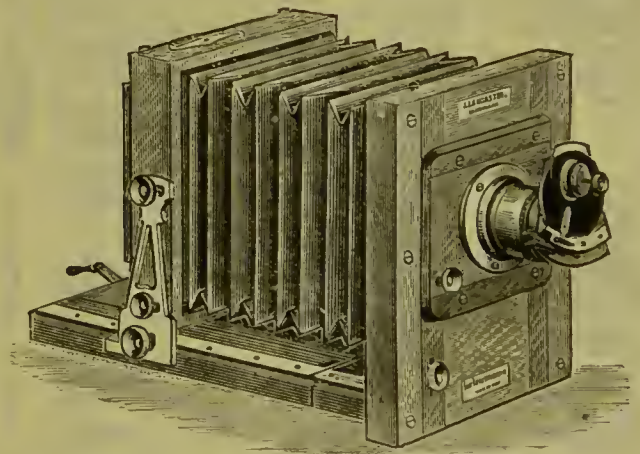

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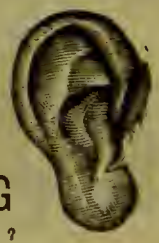

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(ANNUAL SALE IN ENGLAND, MILLIONS)

Has induced us to adopt a plan whereby we can export them in saleable condition, so that all traders may handle them and insure themselves against loss through bad stock.

FOR FULL PARTICULARS, ADDRESS THE PATENTEES—

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# £1,000 REWARD.

## MITCHAM OILS OF PEPPERMINT.

Where to obtain them genuine, direct from the growers. Guaranteed pure as distilled from the herb, without any rectifying or any other mixing process.

The above reward will be paid to any person who shall prove that we have ever had any dealings, *direct* or *indirect*, in any Foreign Peppermint Oil, or in any other but **PURE MITCHAM BLACK AND WHITE,** of which we are the *largest* growers in *England.*

ESTABLISHED NEARLY 20 YEARS.

THE WHOLESALE TRADE ONLY SUPPLIED.

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HERB GROWERS AND DISTILLERS OF ESSENTIAL OILS,

BEDDINGTON CORNER, MITCHAM, SURREY.

# EXCHANGE COLUMN.

**This Section of "The Chemist and Druggist" must be closed for press by Thursday noon of each week. Remittances payable to EDWARD HALSE.**

## TERMS.

**Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of ½d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word, his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of The Chemist and Druggist, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word, as *e.g.*, £1 10*s.* 6*d.***

## FOR DISPOSAL.

### Drugs and Chemicals

Various lots of essential oils and perfume essences; write for list. Parkes, 196 Belsize Road, Kilburn.

About 7 lbs. pure carmine. 1*l.* 1*s.* per lb., or 1 oz., post free 1*s.* 6*d.* John Heely, Chemist, 115 Kennington Road.

Surplus drugs.—2 lb. pulv. ipecac., 7*s.* lb.; 3 lb. pulv. cantharadis, 3*s.* 6*d.* lb.; 1 lb. iodoform, 13*s.* 6*d.*; 2 lb. pulv. opii; 4 lb. gum gamboge, 2*s.* lb. "Drugs," Lingdale, Skelton R.S.O.

### Formulæ.

Reliable recipes, 6*d.* each; full set of 130 neatly copied in book, 7*s.* 6*d.*; send for list "Chemist," Edwards, Wye, Kent.

Mixture for Tic and Toothache, never fails, has proved the only cure in hundreds of cases: Indigestion Specific, the experience of years has shown its value: Quinine and Iron Tonic, perfect in appearance and results; 2*s.* 6*d.* each recipe, nothing in the market to equal them. W. Arthur, 99 Old Road, Blackley, Manchester.

Brooks's sweet solid perfumes are best and cheapest; four sorts—"Multefloral," "Moss Roses," "Old English Lavender," "Heliotrope and Musk"; 2*d.* blocks last for years, improving by age; recipes for the set, with instructions, 3*s.* 6*d.*, or recipes, with 6 of each as sample, per 5*s.* Tom Brooks, Chemist Hornsey, London, N.

### Literature.

[illegible] for *The Pharmaceutical Journal* posted on Saturday morning. Knott, Chemist, Bolton.

What offers for *Pharmaceutical Journal* for past four years, complete. Haslett, College Gardens, Belfast.

Twelve vols., bound, *Pharmaceutical Journal* and *Transactions* edited by Jacob Bell, from 1842 to 1853 inclusive; what offers? Parkes, 196 Belsize Road, Kilburn.

*Chemist and Druggist* odd monthly 114, weekly 140 since 1880 lot 30*s.*; *Journals*, 403, 20*s.*, 1½*d.*, 4*d.* each; *Times*, 2*s.* Williams, Chemist, Coleford, Gloucestershire. Offers.

### Proprietary Articles.

A few patents cheap; 2*s.* 9*d.* Scott's & Cockle's pills and Steedman's powders. 154/38.

Moonseed bitters, 2*s.* 9*d.* size 22*s.*, 4*s.* 6*d.* size 37*s.* 6*d.* per dozen; clean, and done up in new wrapper: cash with order, or deposit at the office of this paper. G. Steer, 290 Bute Street, Cardiff.

### Educational.

Richardson's "Field of Disease," 7*s.* 6*d.*; Dobell's "Diet and Regimen," 5*s.* 3*d.*; Dobell's "Winter Cough," 5*s.* 3*d.*; Ringer's "Therapeutics," 7*s.* 6*d.*; Husband's "Forensic Medicine," 2*s.* 6*d.*; Fenwick's "Medical Diagnosis," 3*s.* 6*d.*; Fenwick's "Medical Treatment," 3*s.* 6*d.*; above are from quarter to half price. Rose, Feltham.

### Shop Fittings.

Five 2-gallon pear-shaped carboys, cut glass stoppers. What offers? Jones, Chemist, Holywell.

Case as Maw fig. A 2, open at back, 58 in. long, 24½ wide, 8 in. deep back, 4 front, 4 trays, mirror backs, bargain; what offers? Parkes, 196 Belsize Road, Kilburn.

Counter-cases as Maw's A 15, secondhand, 3 ft. 6 in. long, 50*s.*; 2 ft. 6 in. 40*s.*; 6 ft. long by 2 ft. wide, 12 in. high, new case, 7*l.* 10*s.*; desk and case, new, 50*s.* Grohle Brothers, 23 Canal Road, Hoxton, London.

Shop-rounds, 300, price 7*s.* 6*d.* per doz.; specie-jars, several, very cheap; pill-machine, 10*s.* 6*d.*; tincture-presses, 15*s.* and 10*s.*; also a large quantity of second-hand sundry fittings, utensils. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Drawers, 20 ft. run, with glass labels and glass knobs, price 12*l.* 10*s.*, would sell part; also glass-fronted counter, price 10*l.* 10*s.*; dispensing-screen, 6*l.* 10*s.* counter-case, bent-glass as Maw's A 18, measuring 6 feet long, price 5*l.* 10*s.*; and entire fittings, wall-cases, &c., of a chemist's shop. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

New.—4 specie-jars, 13½ in. high, with glass covers, 3*s.* each; 8 specie-jars, 14½ in. high, with glass covers, 3*s.* 3*d.* each; 4 specie-jars, 13 in. high, with gilt-metal covers, 3*s.* each; 1-quart-tincture-press, 7*s.*; 1 1-gall. tincture-press, 25*s.*; 11-in. marble mortar and pestle, 8*s.*; soda-water stand, marble top, 24 × 20 in., mahogany pillar and base, 2*l.* 5*s.*; nests of drawers; stoppered rounds. W. Hawke & Son, Shop Fitters, Wild Court, Great Wild Street, London, W.C.

For sale.—Mahogany dispensing screen, 6 ft. long, with glass case at each side, with plate-glass tablets with gold writing on top, and plate-glass mirror and marble slab in centre, 4*l.* 15*s.*; 1 mahogany wall-case, 7 ft. long, 3*l.* 10*s.*; wall-cases, 8 ft. long, mahogany-fronted drawers, shelving, sponge-cases, bent-glass counter-cases, mahogany step-ladders, counters, &c., all to be disposed of, a great bargain. Bygrave, 111 Shepherdess Walk, City Road, London, N.

Entire fittings of chemist shop for sale.—20 ft. run of mahogany drawers, gold labels, glass knobs, with bottle-lockers under, above same mahogany-fronted shelving, uprights and cornice, 3-ft. cupboard with shelving, &c., to match; 6-ft. plate-glass dispensing-screen and corner; glass-fronted serving-counter, 12 ft. long; 15 dozen bottles, assorted; 4-ft. nest of counter-drawers; plate-glass wall-case with mahogany cupboards under; 2 pear-shape carboys; the lot complete, in first-rate condition, for 50*l.* Elkanah Natall, 242 Old Street (Shoreditch end), London, E.C. Removed from 207 opposite.

For sale or exchange.—12 ft. run 60 mahogany-fronted drawers, glass knobs and glass labels; ditto with bottle-lockers under and mahogany-fronted shelves and gold cornice, complete for 11*l.* 12*s.* 6*d.*; dispensing-screens as Maw's A 54 and 55, from 65*s.* each; ditto, with silver plate-glass centre and cases at each with tablets on top, "Dispensing Department," at low prices; a very large stock of counter and wall cases, all sizes, Maw's A 18, 5 ft long, 90*s.*, 6 ft., 5*l.* 5*s.*; large stock as A 16 from 2 ft. to 8 ft. long, desk and cases plate-glass and mahogany, complete 40*s.*; glass-fronted counters; also mahogany fronts cheap: pink ointment-jars, dome covers, extract-pots to match; mortars, pill-machines, specie-jars, carboys; 20 doz. good secondhand bottles, 7*s.* doz.; dispensing-scales, and all requirements for chemists fitting up or making alterations. Send particulars of requirements, sketches and lowest prices will be forwarded by Elkanah Natali, 242 Old Street (Shoreditch end), London, E.C.; 11 doors from City Road. Removed from 207 opposite.

### Miscellaneous.

16*l.* worth Herbert and Godfrey's spectacles: what offers? Coleman, Chemist, Wolverhampton.

5,000 full-size business envelopes, 2*s.* 6*d.* per thousand, or the lot for 11*s.* 6*d.*, free to London. Orchard, Salisbury.

Dentist chair, stand, footstool, and bracket; also dentist vice and lathe, cheap. Parkes, 196 Belsize Road, Kilburn.

Several pipes pure orange wine, 2*s.* 6*d.* per gallon, or prepared with quinine to B. P., 2*s.* 9*d.*; sample 6*d.* Simpson, 307 Fairfield Road, Droylsden.

## WANTED.

Fixtures, bottles, &c., for fitting-up shop; all or part. Day, Chemist, Dewsbury.

In perfectly good condition, sp. gravity balance. Upjohn, 5 Bathurst Street, W.

To purchase shop-fittings, &c., in large or small quantities. Josephs, 5 New Oxford Street, London, W.C.

Cheap; dental forceps, with mirror; cash. Shakespeare, 216 Girlington Road, Bradford.

Iron or bell-metal mortar. State condition, fluid capacity, and lowest price, carriage paid, to Burke, 210 Camp Hill, Birmingham.

### Addresses Wanted.

Alfred B. Drake, caterer to officers' mess Militia Encampment, Mansfield, and R.H.R. Sherwood Lodge 1890. 116/33.

W. Probert, Esq., staying at Eastbourne in January; Alfred Burgess, probably at Worthing, wife invalid; W. Bowdich, late of "White Hart," Ringwood. J. F. Andrews, Chemist, Eastbourne.

# SPECIALITIES

# HYPOPHOSPHITES

(GRANULAR, PURE, & SOLUBLE).

# PHOSPHORIC ACID

Pure, B.P.—1·500—1·750—Glacial. Also Technical, 1·250.

# HYDROGEN PEROXIDE

OF ANY REQUIRED VOLUME.

Telephone No. 5415.

Telegrams, "TYRER, STRATFORD, LONDON."

# THOMAS TYRER & CO.

Manufacturing Chemists,

STIRLING CHEMICAL WORKS

(ESTABLISHED BY DUNN & CO. 1844),

ABBEY LANE, STRATFORD, LONDON, E.

MANUFACTURERS OF

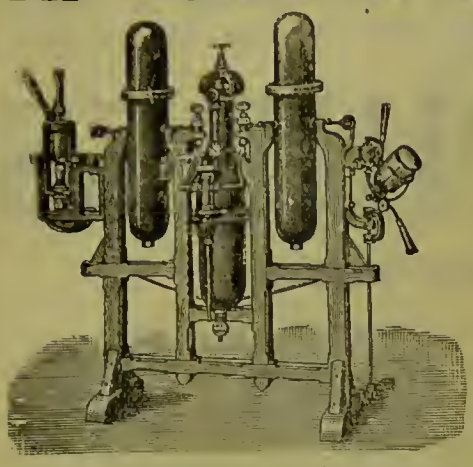
# PURE, PHARMACEUTICAL,

# PHOTOGRAPHIC,

# GENERAL & TECHNICAL CHEMICALS.

Prepared under the direction of THOMAS TYRER, F.I.C., F.C.S., &c.

# A. LOZÉ & CO., LD., 281 WEST DERBY ROAD, LIVERPOOL.



INDISPENSABLE TO CHEMISTS.

## THE ONLY PRACTICAL SODA WATER MACHINE.

**Self-working by Chemical Action. No Skilled Labour.**

**NOT LIABLE TO GET OUT OF ORDER OR NEED REPAIRS.**

*Produces the Purest Aërated Water made.*

**Machines, in two sizes, at 25 guineas and 30 guineas. All complete. With the smaller a lad can make easily in ten hours twenty dozen Syphons or 100 dozen Bottles; with the larger, thirty dozen Syphons or 175 dozen bottles.**

**INDIA.—Machines on view at Messrs. Bertie-Smith & Co.'s, Bombay.**

COUNTY LABORATORY, 30 BROWNLOW STREET, LIVERPOOL, October, 1889.

I have examined during the present year the Machines for making Aërated Waters invented by Mr. Lozé, and I have formed a very high opinion of them. No lead is found in any part which comes in contact with the water, and the process is one which produces absolutely pure Carbonic Gas. Accordingly I find that the effervescing water produced is free from every injurious metal or contamination, and has a better flavour than that produced in the ordinary way. J. CAMPBELL BROWN, D.Sc.

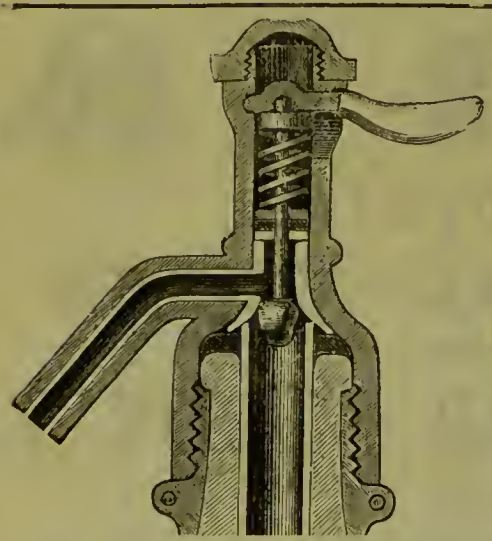
CHEMICAL LABORATORY, 20 ALBERT GATE, MANCHESTER, 21st August, 1889.

GENTLEMEN,—At your request I have visited the works of Messrs. A. Lozé & Co., of Prescot Street and Tuebrook, Liverpool. I have inspected his patented Apparatus for producing Aërated Waters, and have analysed the Aërated drinks manufactured. The results of analysis quite justified the inferences which were drawn from a knowledge of the materials used. Thus, instead of using ordinary whiting (as the source of carbonic acid gas), which gives off small quantities of offensive gases when acted upon with acid, Mr. Lozé uses one of the pure soluble bicarbonates of either Potash or Soda; the use of this salt enables the apparatus to be much simplified in form, as no gas washer is required, but the carbonic acid gas may be led at once into the liquid in the Saturating Cylinders. The Aërated drinks produced are of very high quality, both as to purity and as to Aëration, and the apparatus possesses the merit of extreme simplicity and efficiency.—Faithfully yours, C. ESTCOURT, F.I.C., F.I.

Messrs. A. LOZÉ, & CO., LIMITED. DITTON, 10th April, 1890.

Dear Mr. Lozé.—I am pleased to inform you that I have been able to work the Machine sold to me by you without previous knowledge. With your patent Turnover I can bottle Patent Stoppers at the rate of two dozen per minute. Syphons and Corked Bottles I can fill much quicker than what you advertise the Machine to do.

The Aërated Waters produced have been sampled by a number of gentlemen, and pronounced by them to be of a most excellent quality.—Wishing you every success, I remain, yours truly, ROBT. J. GOW, F.C.S.



Non-Metallic! Non-Poisonous!! Pure Water!!!

## IMPORTANT INVENTION IN SYPHONS.

NEW PATENT GLASS-LINED (THROUGHOUT)

# SYPHON HEAD

PATENTED FOR ENGLAND AND ABROAD.

Absolutely ensuring no metallic contamination or poisoning of the drinks.

*THIS PATENT GLASS-LINED SYPHON possesses the following advantages over others:—*

Perfect purity of Waters. Glass Lining throughout, so is always quite clean.
Valve working on glass and in a glass tube prevents any drip from tap. Freer and fuller flow from tap.
Stronger in every part, as exterior of Syphon Head is of metal, and in appearance like ordinary Syphons, and stand wear and tear three times as long.

**PRICES ONLY SLIGHTLY HIGHER FOR ALL THESE IMPORTANT IMPROVEMENTS.**

Tested before being sent out to bear a pressure of 260 lbs. to the square inch.

*Chemists should insist on having Aerated Waters in only Glass-lined Syphons, and so prevent any poisoning by metallic contamination. It is impossible to lay too much stress upon the importance of this matter.*

Patent Glass-Lined Syphon Head put to ordinary Syphons for 20*s.* per dozen.
Sample Syphon sent carriage paid on receipt of 2*s.* 6*d.* Seltzogenes from 7*s.* 9*d.* each, 3-pint size.

MANUFACTURERS AND PATENTEES—

## THE GLASS LINED SYPHON COMPANY, LIM. (NICOLE'S PATENT).

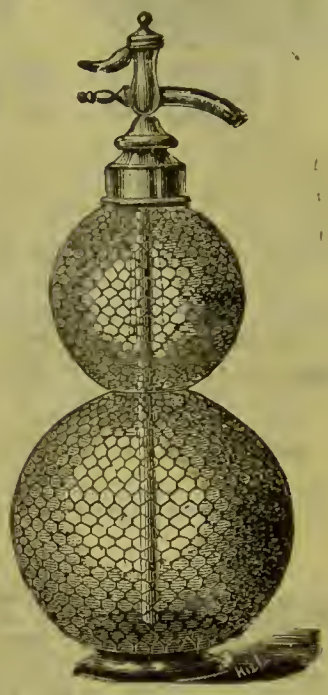
**NETHERTON ROAD, WOODBERRY TOWN, LONDON, N**

# SYPHONS & SELTZOGENES

SODAWATER MACHINERY AND APPLIANCES
BRATBY & HINCHLIFFE LTD
ANCOATS 146 MINORIES
MANCHESTER & LONDON EC

81 ROBERTSON STREET, GLASGOW.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving our works.



**PRICES.**

SYPHONS ... 1/6 1/8 and 1/10 each.

SELTZOGENES.

| 1 | 2 | 3 | 4 | 5 | 8 pint. |
|---|---|---|---|---|---|
| 5/6 | 6/2 | 7/ | 8/ | 9/11 | 15/6 each. |

## WEDGWOOD ACID-PROOF MORTARS AND PESTLES.

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**Funnels, Evaporating Pans, Electric Battery Fittings, Bed Pans, Urinals, Medicine Spoons, Physic Cups, Sick Feeders, Bleeding Basins, Medicine Measures, Eye Cups, Inhalers, Nursery Lamps, Wall Tiles, &c.**

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THE

## "NIAGARA" BOTTLE,

**Or Improved CODD'S.**

Is the most perfect Bottle in the market.

SEND FOR SAMPLE AND COMPARE!

PRICES ON APPLICATION.

Name on Bottles free for orders of 30 gross. Under that quantity Moulds charged 10*s.* for each size or shape.

Extra Rings, 1*s.* 6*d.* per Gross; printed with name of owner, 2*d.* per Gross extra.

BUY THE

"LONDON-MADE"

## SYPHON

(Title Registered)

AND SUPPORT BRITISH INDUSTRY.

It is the cheapest, strongest, handsomest and best in the World

**Pure Block Tin Tops**

**PRICE 1/6 EACH.**

Nickel-plating Tops from 1½*d.* each.
Silver-plating Tops from 3½*d.* each.
Marking on Tops Free.
Marking on Vases Free for orders of 1,000

ILLUSTRATED CATALOGUE FORWARDED FREE UPON APPLICATION TO

**BARNETT & FOSTER,** "NIAGARA WORKS," 26T EAGLE WHARF ROAD, **LONDON, N.**

TRADE MARK.

*THE LANCET*:—"About one-third of the whole dry matter *consists of true peptone*, and another third of *albumose*. A variety of *albumen uncoagulated by heat*."—July 12th, 1890.

*VIENNA POLIKLINIK*:—"Your preparations . . . . have proved excellent means of nutrition, and for strengthening individuals of great weakness and *poverty of blood*."—Prof. Schnitzler, Sept. 19th, 1890.

# DENAEYER'S

## LIQUID STERILISED PEPTONE OF MEAT.

Considerably more nutritive than beef, and more palatable than home-made beef-tea; elegant in appearance. No digestive function need, or can, be exercised, all having been fitted for immediate absorption. Life can be supported indefinitely upon it, and it does not clog upon the most fastidious and delicate palate. It contains all the stimulative extractives and the mineral salts in due proportion, as they exist in beef. 2*s*. per bottle, ready for use.

**LIQUID PEPTONATE OF IRON (Denaeyer)**, 1*s*. 6*d*. per bottle, guaranteed to contain 10 per cent. of the salt in solution, equal to 3 30 per cent. of the metal.

**PULVIS FERRI PEPTONATIS (Denaeyer)**, 4*s*. per ounce bottle, a beautiful reddish-grey powder soluble in water, compatible with all alkaline or neutral medicines.

**TRUE PEPTONATE OF IRON** is the produce of *our laboratory alone*, and is *our discovery*. The salt is precipitated from its solution in presence of the acid gastric juice, redissolved and absorbed with great rapidity in the alkaline medium met with in the duodenum, so that it does not interfere with digestion, and it is not chemically altered by the juices of the alimentary canal. Should be administered before meals, and its flavour requires no disguise.

PAMPHLETS AND SAMPLES FREE TO MEDICAL MEN.

*Wholesale General Agents—Edinburgh: DUNCAN, FLOCKHART & CO. Glasgow: OLD APOTHECARIES' COMPANY (Limited). Dublin: HAMILTON, LONG & COMPANY (Limited).*

**DENAEYER'S PEPTONOIDS AND EXTRACT OF MEAT COMPANY (LIMITED)**
118 BISHOPSGATE STREET WITHIN, LONDON, E.C.

# ROWNTREE'S

The "MEDICAL PRESS AND CIRCULAR":—"Certainly this preparation is of delicate flavour . . . It is perfectly soluble . . . the small quantity required for the *immediate* production of a cup of excellent cocoa will ensure for this 'Elect Extract' a favourable reception at the hands of persons of weak digestion, and all who prefer this wholesome beverage to tea and coffee.

The "BRITISH MEDICAL JOURNAL" says:—"Rowntree's Cocoa Extract is one of the best. Its flavour and aroma are good. Cocoa thus prepared is one of the most digestible articles of food."

YORK, ENGLAND.

## ROBINSON'S
# LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt, and sound Port Wine.

**REPORT ON BEEF WINES.**

From the results of my Analyses of various **Beef Wines** I have had occasion to examine, none have **equalled** as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. Robinson, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to **Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.**

WILLIAM ELBORNE, F.C.S., F.L.S.,
Lecturer on Materia Medica in the Owens College, Manchester (Victoria University).
December 15, 1888.

# ROBINSON'S ORANGE WINE.

Specially prepared for Quinine Wine, does not deposit, will keep good in any climate, and well adapted for Export Trade. Supplied in Casks containing 9, 18, 30, 60, or 120 Gallons. Terms on application. [2]

# PHARMACEUTICAL SHERRY WINE.

This Wine is well adapted for Pharmaceutical Preparations, and is the strength ordered by the B.P. Price, in 6-Gallon Casks, 5/6 per gallon; in 2-Gallon Jars, 6/- per gallon, carriage paid. Casks charged 7/6, Jars 2/6, and allowed if returned. Cash or satisfactory reference to accompany orders.

**B. ROBINSON, Distiller and Brewer of British Wines, Church St., Pendleton, Manchester.**
18

# FASTIDIOUSNESS APPROACHED.

The principle of combining a rapidly diffusible stimulant with a readily assimilated tissue food is one which is so frequently advocated but rarely if ever realised.

To combine such a stimulant with a fluid meat without in the smallest degree changing the nature of either is a problem which investigators and manufacturers have long endeavoured to solve.

The proprietors of Caffyn's Liquor Carnis after lengthened experiments and research have succeeded in producing such a combination in Caffyn's Carnis Chocolate. The value of such a mixture is obvious, and there need be no hesitation in stating that the preparation in question fulfils all these requirements, at the same time being pleasant to the palate and the eye, qualities in themselves of no small importance.

It is the experience of all that cooked meat taken with Tea or Coffee is a frequent cause of dyspepsia, and is so much nourishment wasted, the Proteids being diverted from the true Peptone destination to that of waste products—Leucin, Tyrosin, &c. Following a day's hard work there is a natural craving for a healthy stimulant with the meal and better stimulants than the infused beverages Tea, Coffee, and Cocoa could not be found; yet these when taken in combination with Joint or Chops give such unsatisfactory results that personal experience soon dictates such substitutes as Wine, Beer, &c.

But it is quite possible to unite the former harmless and useful restoratives with meat in such a manner that these disadvantages may be readily overcome.

This requirement is met by Caffyn's Carnis Chocolate, for here the meat is not cooked, but is presented in its natural state ready for absorption, plus the stimulant which the exhausted nerve-tissues require, thereby completing a food equal to the requirements of the animal mechanism and satisfactory to the palate. Moreover, it may be taken by those suffering from weakened digestive powers, since it is not attended by flatulence, gastric-intestinal troubles, or any other dyspeptic phenomena, characteristic sequelæ of an ordinary meat-meal taken with the infused beverages.

For those in health as well as for invalids it is equally valuable. The tired brain-worker will find in it an incalculable boon, since it supplies an immediate restorative without the depressing after-effects of alcohol, at the same time bringing a supply of tissue food easily assimilated and ready for immediate consumption.

In the treatment of Dipsomania it is of the highest worth, since it quickly relieves that awful craving and depression so characteristic of the disease. Dyspeptics may take it unhesitatingly.

It is admirably adapted to the treatment of Vomiting during Pregnancy and diseases of the Nervous System in which a stimulant may be necessary which is not attended by excitement. Its value to Athletes and Travellers is obvious.

We therefore claim to have produced a type of foodstuff that is unique in every sense of the word, and supplies a universal desideratum. As far as our knowledge extends, it is the only preparation that contains within itself pure uncooked Meat Albuminoids and the stimulating Alkaloids of Cocoa combined in such a manner and in such proportions that no strain whatever is thrown upon the digestive apparatus, and is valuable alike to those in health and to the most confirmed dyspeptic.

Into an ordinary breakfast-cup place a dessertspoonful of Caffyn's Carnis Chocolate, to which add gradually, stirring briskly, boiling milk or milk and water if preferred. Stir well before using.

*Supplied in 7-oz. Bottles at 2s. 6d., or 24s. per dozen, less usual trade discounts.* [1]

**SPECIMENS GRATIS**

From the Manufacturers and Patentees,

THE LIQUOR CARNIS COMPANY (Lim.),

50 Holborn Viaduct, London, E.C.

Laboratories—SMITHFIELD WORKS, E.C.

# CHAS. SOUTHWELL & CO.

SOLE MAKERS OF THE

## EXCELSIOR TABLE JELLIES

In Packets of half-pint, pint, and quart, costing less than one third of the ordinary Bottled Jellies.

BLACK CURRANT
ORANGE
LEMON
CALFSFOOT
VANILLA
NOYEAU
CHERRY
STRAWBERRY
RASPBERRY
PINE APPLE

PRICE LIST ON APPLICATION.

**CHAS. SOUTHWELL & CO.**

WHOLESALE AND EXPORT CONFECTIONERS,

**DOCKHEAD, LONDON, S.E.**

# LOEFLUND'S

## MALT AND STERILIZED MILK PRODUCTS

LANCET.—"We have nothing but praise to bestow."

BRITISH MEDICAL JOURNAL.—"Pure Hordeum possesses all the properties claimed for it."

CHEMIST AND DRUGGIST.—"Pure Hordeum may be relied on to contain the highest attainable proportion of diastase."

KINDERMILCH } Infan
ALPINE MILK RUSKS (ground) } foods.
CREAM MILK, unsweetened, sterilized.
CREMOR HORDEATUS, delicious substitute for Cod-liver Oil.
PURE HORDEUM (Malt Extract); also with Cod-liver Oil, Hops, Iron, Lime Quinine, and Pepsine.
MALT EXTRACT LOZENGES.
MUSTARD LEAVES, best and cheapest.

Sole Agents—ROBERT BAELZ & CO., 14–20 St. Mary Axe, E.C.

# RIDGE'S

PATENT COOKED

# FOOD

EXCELS ALL OTHERS

FOR INFANTS AND INVALIDS.

As professionally certified, it has saved the lives of many, when all other diet had failed. Will support life single-handed, either with or without milk, being a Milk Food.

**HAS THE LARGEST SALE IN THE WORLD.**

Refuse all imitations—insist on having RIDGE'S FOOD.

Pamphlet and Show Cards post-free on application to

**Ridge's Royal Food Mills, LONDON, N.**

# BOVRIL

*The following is taken from a Clinical Lecture, given the Hotel Dieu Hospital, by* Dr. J. M. BEAUSOLIEL, *Professor of Histology at the School of Medicine and Surgery:*

"Undoubtedly many persons have been starved to death through inexperienced Medical Men and Nurses placing an undue nutritious value on such preparations as Extract of Meat, home-made beef-tea &c.; whereas,

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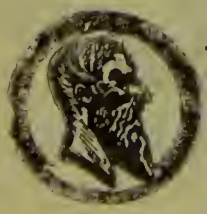

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| **Bourboule (La)** .. .. | 11/ | .. | 50 | 42/ | .. | .. |
| **Carlsbad** .. .. .. | 12/ | .. | 50 | 46/ | .. | .. |
| Condal .. .. .. .. | .. | 14/ | .. | .. | 50 | 56/ |
| **Contrexeville "Le Cler"** | 8/ | .. | 50 | 32/ | .. | .. |
| Do. "Pavilion" .. | 9/ | .. | 50 | 35/ | .. | .. |
| Ems .. .. .. .. .. | 7/ | .. | 50 | 28/ | .. | .. |
| Flitwick .. .. .. .. | 12/ | .. | .. | .. | .. | .. |
| Frauz-Josef .. .. .. | .. | 11/ | .. | .. | 50 | 42/ |
| Friedrichshall .. .. .. | 13/ | 10/ | 25 | 25/ | 50 | 40/ |
| **Giesshubler**, claret shape .. | 8/ | 5/ | 50 | 30/ | 100 | 38/ |
| Homburg .. .. .. .. | 12/ | .. | 50 | 48/ | .. | .. |
| Hunyadi-Janos .. .. .. | 16/ | 13/ | 25 | 30/ | 50 | 50/ |
| Johannis-Brunnen .. .. | 6/ | 5/ | 50 | 23/ | 100 | 36/ |
| **Kronenquelle** .. .. .. | 10/ | .. | 50 | 40/ | .. | .. |
| Marienbad .. .. .. .. | 10/ | .. | 50 | 38/ | .. | .. |

| NAME. | Per Dozen. | | Original Packages. | | | |
|---|---|---|---|---|---|---|
| | Bots. | ½ Bots. | Bottles. | | ½ Bottles. | |
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| **Orezza** .. .. .. .. | 12/ | .. | 30 | 30/ | .. | .. |
| **Pullna** .. .. .. .. | 12/ | 8/ | 40 | 36/ | 40 | 25/ |
| Roisdorf .. .. .. .. | 6/ | .. | 50 | 25/ | . | .. |
| **Rosbach** .. .. .. .. | 6/ | 5/ | 50 | 24/ | 100 | 36/ |
| **Royat** .. .. .. .. | 9/ | .. | 50 | 34/ | .. | .. |
| **Rubinat** .. .. .. .. | 15/ | .. | 25 | 30/ | .. | .. |
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| Sulis .. .. .. .. | 6/ | 5/ | 50 | 23/ | 100 | 36/ |
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Greeff, R. W., and Co.
Macfarlan, J. F., and Son
Mason, A. H.
Smith, T. and H., and Co.
Warrington Chemical Co.
Wright, Layman and Umney
Zimmermann, A. and M.

**CITRIC ACID**
Hassall and Co. (Phospho)

**COCAINE-HYDRO.**
Howards and Sons

**COCA WINE**
Armbrecht, Nelson and Co.
French Hygienic Soc.
Joseau, Gabriel
Mariani and Co.

**COCOA & CHOCOLATE**
Cadbury Bros Fry and Sons
Christy and Co.
Rowntree and Co.

**COD-LIVER OIL**
Allen and Hanburys
Burroughs, Wellcome and Co
Evans, Sons and Co.
Greeff, R. W., and Co.
Hill, A. S. and Son
Jackson, W. and H.
Lofoden Cod Liver Oil Co.
Lofthouse and Saltire.
Smith, T. J.
Southall Bros. and Barclay
Woolley, Sons and Co.

**COFFEE** Essence)
Symington and Co. (Cones

**COLLAPSIBLE TUBES**
Betts and Co.
Brooks, Peel and Co.
Sanders, H. G., and Son

**COMP. MEDICINES**
Allen and Hanburys
Blyton, Astley and Co.
Burroughs, Wellcome and Co
Fuerst Bros.
Hooper, B., & Co.
Leo & Co.
Lloyd, T. H., and Co.
Wyleys and Co.

**CONFECTIONERY**
Blyton, Astley and Co.
Gibson, R., and Sons
Kerfoot, T.
Pascall, J.
Southwell, C., & Co.
Warrick Brothers.

**CONCENT. LIQS.**
Evans, Sons and Co.
Fletcher, Fletcher & Stevenson
Lloyd, T. H., and Co.

**CORN CURES**
Seabury & Johnson (Plasters)
Thompson, M. [F. Young, H.

**COTTON WOOL**
Haynes, G., & Co. (Absorbent)
Robinson and Sons (Absorbnt.)
Sanger, J., and Sons
Seabury and Johnson

**CRUSHED LINSEED**
Mumford, S. G.

**DENTIFRICES**
Eau de Botot
Evans, Sons and Co.
Fantiman and Co.
Jewsbury and Brown
Lakeman, J. J. "Salvine"
Lowe, C.
Queich, H. C.
"Salvine"
Stevens, P. A.
Sutton, O., and Co.
"The Alexandra" (Ziemer)
Thompson and Capper
Warrick Bros.
Woods, W. Areca Nut)

**DRUGGISTS' SUN,**
Ayrton and Saunders
Bailey, M., and Co.
Barclay and Sons (Limited)
Evans, Lescher and Webb
Evans Sons, and Co. (Salicin)
Fordham, W. B., & Sons (Lim.)
Gilbertson, H., and Sons
Hill, A. S., and Son
Hockin, Wilson and Co.
Idris and Co.
Jackson, W. and H.
Kay Bros., Lim.
Lynch and Co.
Mark, J., and Co.
Marriot, E., and Co.
Macon, A. Newton
May, Roberts and Co.
Queich, H. C.
Rankin, W., and Sons
Sanger and Sons
Schutze and Co.
Thompson, Walters, Hole and Co., Lim.
Tidman and Son
Toogood, W.
Wood, Vincent

**DRUG GRINDERS**
Jordan and Co.

**DRUMS**

**DISINFECTANTS**
Adams, Webster and Co.
Fletcher Bros and Co.
Government Sanitary Co.
Grindley and Co. (Lim.)
Hamilton and Co. (Lim.)
Joyes' Fluid
National Chemical Co.
Sanitas Co
Seabury and Johnson

**EAU DE COLOGNE**
Farina, J. M.
Martin, Maria (Nun)

**ELASTIC HOSIERY**
Wood, V.

**ELECTRIC APPAR.**
Darton, F., and Co.
Gent and Co.
Lancaster, J., and Son
Orme and Co.

**ENEMAS**
Evans, Sons and Co.
Sanger and Son

**ENGRAVERS**
Barker, W., and Son
Corean, T. R.
Young, C. & A., & Co.

**ESSENCES**
Beckett, W. Boehm, F.
Berger, F.
Bratby and Hinchliffe (Ld.)
Burgoyne, Burbidges and Co.
Bush, Son, and Co.
Bush, W. J., and Co.
Cummock, J
De Carle and Son
Firth, H.
Goodall, Backhouse and Co
Hay, W. Idris and Co.
May and Baker (Limited)
Millar, A., and Co.
Newball and Mason
Oldfield, Pattinson and Co.
Stevenson and Howell
Tyrer, P. (Anchovies)
Tyrer, T., and Co.
Woolley, Sons and Co

**ESSENTIAL OILS**
Berger, F.
Boehm, F.
Bush, W. J., and Co.
Bush, W., Son and Co.
Clay, Dod and Co.
Cocking & Co. (Japan Pepper-mint)
Cummock, J.
Drysdale, J. W., and Co.
Evans, Sons and Co.
Firth, H. [Clarke
Hodgkinsons, Treacher and
Lambert, S., and Co. (Sandal Wood)
May and Baker (Limited)
Miller, J. & G.
Monrard, J.
Poppelreuter, W.
Stevenson and Howell
Symes and Co.
Treatt, R. C.
Vogt, G., and Co.
Warrick Brothers
Wright, Layman and Umney

**ETHER**
Duncan, Flockhart and Co.
Howards and Son
May and Baker (Limited)
Robbins, J., and Co.
Tyrer, T., and Co.
White, A., and Sons
Woolley, Sons and Co.
Wright, Layman and Umney

**EXTRACTS, FLUID**
Allen and Hanburys
Barber, G., and Co
Burgoyne, Burbidges and Co.
Dakin Brothers
Evans, Sons and Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire and Francis
Hooper, B., and Co.
Lloyd, T., Howard and Co.
Moss and Co.
Petter and Clarke
Wright, Layman and Umney

**EXTRACT, MEAT**
Australian Meat Co.
Bovril (Limited)
Brand and Co.
Denaeyer's Peptone and Extract of Meat Co. (Lim.)
Liebig Co.
Liquor Carnic Co. (Lim.)
Macon, G., and Co. (Lim.)

**FEEDING BOTTLE**
Breffitt, E. and Co., Lim.
Evans, Sons and Co.
Hearn, E. A., and Co.
Hockin, Wilson and Co.
Jackson, W. and H.
Kilner Bros.
Marriot, E., and Co.
May, Roberts and Co.
Thompson, Walters, Hole and Co. (Limited)
Toogood, W

**FLY PAPERS**
Ford, Shapland and Co.
Tunbridge and Wright
Wilson, S.

**FOOD** (Infants' & Invalids')
Allen and Hanburys
Baelz, R., and Co.
Brand and Co.
Goodall, Backhouse and Co.
Hearon, Squire and Francis
Liebig Co.
Liquor Carnic Co. (Lim.)
Mottershead & Co. (Benger's Food)
Nestle, H.
Ridge, Dr.

**FILTERING**
Fordham, W. B., & Sons, Lim
Silicated Carbon Filter Co.

**GINGER ALE**
Hay, W. (Essence)
Mills, E. M., and Co.

**GLUE**
Grove Chemical Co.
Fordham, W. B., and Sons

**GLYCERINE**
Boehm, F.
Fink and Co. [Fuerst Bros
Greeff, R. W., and Co.
Lofoden Cod Liver Oil Co.
Price's Candle Co.

**GRANULAR PREP.**
Bishop, A., and Sons
Blyton, Astley and Co.
Curtis and Co.
Hearon, Squire and Francis
Hill, A. S., and Son
Kerfoot, T.
Wright, Layman and Umney

**GUM**
Fink and Co. (Arabic, &c.)
Greeff, R. W., and Co.
Hyde, Nash and Co.
Levermore Aug., and Co.

**HAIR PREP.**
Chesebrough Mnfg. Co.
Edwards and Co.
Truefitt, H. P. (Limited)

**HERB BEER EXTS**
Lakin, W. H.
Newball and Mason
Oldfield, Pattinson and Co.
Potter and Clarke

**HERBALISTS**
Newball and Mason
Potter and Clarke

**HOMŒOPATHIC**
Keene and Ashwell
Leath and Rose
Thompson and Capper
Watson and Watts

**HOSPITALS**
London Homœopathic

**HYPOPHOSPHITES**
Duncan, Flockhart and Co.
Fellows
Fletcher, Fletcher and Co.
Symes and Co.
Typke and King

**INHALERS**
Spirone Co., The
Toogood, W.

**INSECTICIDES**
Keating, T.
Sanford and Co.
Steiner and Co
Thompson, Walters, Hole and Co. (Lim.)

**INK** [See MARKING
Bewley and Draper
Duncan, Flockhart and Co.

**KOLA**
Christy, T., & Co.
Thompson, M. F.
Van Hargan, J.

**KETCHUP**
Tyrer, P.

**LARD**
Ewen, J., and Sons

**LINSEED POULTICE**
Seabury and Johnson

**LINT**
Liverpool Lint Co.
Newsome, C.
Robinson and Sons
Seabury and Johnson

**LOZENGES**
Allen and Hanburys
Blyton, Astley and Co.
Gibson, R., and Sons (Masters.)
Hill and Son
Kerfoot, T.
Pascall, J.
Raimes and Co
Randall and Son
Stern, G. and G.
Warrick Bros.

**LIME JUICE**
Evans, Sons and Co.
Idris and Co.

**MACHINERY**
Beyer Frores.
Burroughs, Wellcome and Co.
Foster, F.
Holroyd, J., and Co. (Lim.)
Melin, C.
Ollson, A.
Palau and Co.
Shears and Son
Werner and Pfleiderer

**MAGNESIA**
Andreae, Oscar, and Co.
Bush, W., Son and Co.
Dinneford and Co.
Greeff, R. W., and Co.
Henry, T. and W. (Calcined)
Hill and Sons, A. S.
Kerfoot, T. (Citrate)
Queich, H. C.
Southwell, C., and Co. (Citrate)

**MALT EXTRACT, &c.**
Allen and Hanburys
Baelz, R., and Co.
Burroughs, Wellcome and Co (Kepler's)
Hearon, Squire and Francis
Oppenheimer Bros. and Co.
Reade Bros. and Co. (Biscuits)
Wyleys and Co.

**MANICURE PREPARATION**
Carmichael, M. W.
Dr. Paul's

**MARKING INKS**
Barber, G., and Co. (Crimson)
Hickieson, J.
Marx, M. and E.

**MEDICINE CASES**
Day, Son and Hewitt (Veterinary)
Day and Sons (Veterinary)

**MENTHOL**
A1 Menthol Depot, A. W. Shirley, Proprietor
Cocking and Co.
Evans Sons and Co.
Hockin, Wilson and Co.
Seabury and Johnson
Thompson, Walters, Hole and Co. (Lim.)
Tyrer, P.

**MERCURIALS**
Fuerst Brothers
Howards and Sons
May and Baker (Limited)

**METHYLATED SPIRITS**
Boord and Son
Burrough, J.
Harvey, J. and W., and Co.
Jones and Co.
Phillips, G., and Co.
Smith, S., and Co.

**METHYLENE**
Robbins, J., and Co.

**MICROSCOPES**
Darton, F., and Co.
Perken, Son and Rayment

**MILK**
Anglo-Swiss Condensed Milk Co.
Nestle, H. (Condensed)

**MIXING MACHINERY**
Gardner, W.
Werner and Pfleiderer

**MORPHIA**
Macfarlan, J. F., and Co.
Smith, T. and H

**OILS, PAINTS, &c.**
Hugh Highgate and Co.
Fox, W., and Sons

**OINTMENT BASES**
Burroughs, Wellcome and Co.
Chesebrough (Vaseline)
Grindley and Co. (Petroleum Jelly)
Reade Bros. and Co.

**OPTICIANS**
Botwright and Grey
Darton, F., and Co.
Lancaster and Sons
Perken, Son and Rayment
Raphael and Co.

**OTTO OF ROSE**
Firth, H.
Fuerst Bros.
Moryoseph, A.
Treatt, R. C.

**PAPAIN PINKLES**
Kuhn, B.

**PEPSINE, &c.**
Burroughs, Wellcome and Co
Chassaing and Co.
Fletcher, Fletcher & Stevenson
Greeff, R. W., and Co.
Newbery F. & Sons (Inglinvin)
Parkes, G. J. R.
Stern, G. and G.
Warner and Co. (Inglinvin)

**PEPPERMINT OIL**
Cocking and Co.
Miller, J. and G.

**PATENT MEDICINES**
Armbrecht, Nelson and Co.
Atkinson and Barber (Infant Preserv)
Barclay and Sons (Limited)
Beecham T. (Pills)
Crouch, F. B.
Edwards and Son
Evans, Lescher and Webb
Fenning's (Powders)
Globe Chemical Co.
Goodall, Backhouse and Co
Guy's Tonic
Holloway (Pills and Oint.)
Lator (Phosphodyne, &c.)
Lincoln (Clarke's Mix.)
May, Roberts and Co.
Newbery and Sons
Radam's Microbe Killer Co. (Lim.)
Roberts and Co. (Foreign)
Sequah (Limited)
Sutton, W., and Co.
Thompson, Walters, Hole and Co. (Lim.)
Vogeler, The Charles A., Co.
Wilcox and Co.

**PATENT AGENTS**
Hora and Son
Thompson, W. P., & Co.

**PERFUMERY, FANCY SOAPS**
Bayley and Co.
Blondean and Cie.
Boehm, F
Burroughs, Wellcome and Co.
Chesebrough Manufacturing Co.
Chiswick Soap Co.
Coward, G. F.
Durrant, Geo. [Ewen (Soaps)
Evans, Sons and Co.
Farina, J. M.
Firth, H.
Giraud Fils
Greenhill, T. S., and Son
Hatrick and Co. (Lim.)
Johnson and Co.
Legrand, L.
Mann, C. A., and Co.
Mourard, J.
Newbery and Sons (Herdose')
Oftinger, E.
Pears' Soap
Price's Patent Candle Co.
Rosmarine Manufg. Co.
Rouse and Co.
Sainsbury, S. (Lav. Water)
Shirley, A. W
Thompson, Walters Hole & Co.
Tidman and Son (Lim.)
Treatt, R. C.
Truefitt, H. P. (Limited)
Warrick Brothers
West, T. (Okell's Mona)
Woolley, Sons and Co (Powder)
Young, R. D.

**PEROX. OF HYDR.**
Dunn and Co.
Robbins and Co.

**PETROLEUM**
Grindley and Co. (Jelly)
Hamilton and Co. (Lim.)
Hatrick and Co. (Lucilline)
Snowdon, Sons and Co. (Jelly).

**PHARM. PREPS.**
Allen and Hanburys
Barron, Harveys and Co.
Berger, F.
Boehm, F.
Boehringer, C. F., & Sohne
Burgoyne, Burbidges and Co.
Burroughs, Wellcome & Co.
Chassaing and Co.
Duncan, Flockhart and Co.
Elton and Co.
Fellows
Ferris and Co.
Firth, H.
Fletcher, Fletcher and Co.
Fournier, Bon and Cie.
Giles Schacht and Co.
Greeff, R. W., and Co.
Green, C., and Co.
Hearon, Squire and Francis.
Heilgers, F. W., & Co.
Hewlett and Son
Hill, A. S., and Son
Hooper, B., and Co.
Howards and Sons
Jeyes Sanitary Compounds Co
Jordan and Co.
Keith & Co. (Conc. Tinctures)
Layng, R. C.
Martindale, W.
May and Baker (Limited)
Moryoseph, A.
Potter and Clarke
Rankin and Borland
Ricqlès and Co.
Roberts and Co.
Southall Bros. and Barclay
Sutton, W., and Co.
Symes and Co.
Tyrer, T., and Co.
White, Alfred, and Sons
Willows, Francis and Butler
Woolley, Sons and
Wyleys and Co.

**PHOTOGRAPHIC**
Botwright and Grey
Darton, F., and Co.
Fallowfield, J.
Greeff, R. W., and Co.
Houghton, G., & Son (Chemc.)
Howards and Sons (Chemicals)
Lancaster, J., and Son
Marion and Co.
Orme, J., and Co.
Perken, Son and Rayment
Tyrer, T., and Co.
White, Alfred, and Sons

**PILL MACHINES**
Palau, N., and Co.
Pindar, J. W.
Toogood, W. (Coater)
Werner and Pfleiderer

**PILLS (Coated, &c.)**
Allen and Hanburys
Anderson Apothecaries Hall
Beecham, Thomas
Blair's Gout Pills
Champigny, A., and Co.
Eade's Gout Pills
Evans, Sons and Co
Hearon, Squire, and Francis
Hill, A. S., and Son
Holloway's Hooper's
Jackson, W. and H.
Lloyd, T., Howard and Co.
McKesson and Robbins
Newbery and Sons
Robinson's
Wand, S.
Warner, W. R. and Co. Coated)
Wyleys and Co.

**PLASTERS**
Evans, Sons and Co.
Johnson and Johnson
Mather, W.
Quilliam, J., and Co.
St. Dalmas, A.
Seabury and Johnson
Thompson, M. F. [Young, H

**PODOPHYLLIN, &c.**
Keith, B., and Co
Smith, T. and H., and Co.

**POLISHING**
Beckett, S
Bradley & Bourdas (Albatum)
Chancellor, C., and Co. (Stove)
Fordham, W. B., and Sons (Limited)
Oakey, John, and Sons

**PORCELAINGOOD**
Toogood. (B.s. Pots, regist.)

**PRINTING**
Bowers Bros.
Corsan, J R. (Glass)
Ford, Shapland and Co.
Silverlock, H.
Townsend, J.

**PUMILINE**
Stern. G. and G.

**QUININE SALTS**
Andreae. Oscar and Co.
Boehringer, C. F., and Sohne
Greeff, R. W., and Co.
Howards and Sons
Kuhn, B.
Zimmermann and Co.

**RENNET**
Duncan, Flockhart and Co.
Greeff, R. W., and Co.
Oldfield, Pattinson and Co.

**RESPIRATORS**
Newbery, F., and Sons

**SACCHARIN**
Allen and Hanburys
Burroughs, Wellcome and Co.

**SALICIN**
Macfarlan and Co.
Smith, T. and H., and Co.

**SALICYLIC ACID**
Burgoyne, Burbidges and Co.
Fuerst Bros.
Zimmermau, A. and M.

**SALT**
Stern, G. and G. (Pepsalia)
Tidman and Son

**SALOL**
Kohn, B.

**SAUCES, PICKLES**
Goodall, Backhouse and Co.
Mason, G., and Co. (Lim.)
Tyrer, P.

**SCHOOLS, &c.**
City School of Chemistry and Pharmacy (Lim.)
Liverpool School of Pharmacy
London Homœopathic and Medical School
Manchester College
Northern School of Pharmacy
South London School of Pharmacy (Lim.)
The School of Pharmacy
Westminster College

**SELTZOGENES**
Bradby and Hinchliffe (Ld.)
British Syphon Co.
Evans, Sons and Co.
Gerant, E., & Co.
Lynch and Co.
May, Roberts and Co.
Thessier, E.

**SEEDS**
Potter and Clarke

**SHEEP DIP**
Fletcher Bros. and Co.
Jeyes Sanitary Compounds Co.
Wilkins

**SHOP FITTERS**
Bowling and Govier
Bygrave, J. and W.
Evans, Sons and Co.
Hinwlett, S.
Natali, E.
Natalli and Co.
Potts, H., and Co.
Treble, G., and Co.
Yates, W. S.

**SOAP**
Ayrton and Saunders
Fayley and Co.
Blondeau and Co. (Vinolia)
Bronnley, H., and Co.
Chiswick Soap Co.
Cook, E., and Co.
Ewen, J., and Sons
Fordham, W. B., & Sons (Ld.)
Jeyes' Sanitary Compounds Co.
Lucas and Co.
Pears' Soap
Stern, G. and G.

**SPONGE**
Cresswell Bros.
Evans, Sons and Co.
Peterson, M., and Co.

**SPECTACLES**
Butwright and Grey
Dorton, E. and Co.
Perken, Son and Rayment
Raphael and Co

**SPIRIT**
Boord and Son
Burrough, J. (Pure & Mthyl.)
Harvey, J. and W., and Co.
Jones and Co. (Methyl.)
Macnair, A., and Co.
Phillips and Co.
Smith, Stephen and Co.

**STAMPS (RUBBER)**
Berkley, J.
Hickisson, J.
Pollard, A. W.

**STARCH**
Beckett, S.
Critchley (Gloss)

**STOPPERS**
Austin and Co. (Sprinklers)
Barnett and Foster
Melin, C.
Sanders, H. G., and Son
Stipendum Stopper Co.

**STOVES**
Clark, S., and Co. (Lim.)

**SUGAR**
Fletcher, Fletcher and Stevenson
Gibson, R., and Sons

**SURGICAL**
Ayrton and Saunders
Bailey, W. H., and Son
Barclay and Sons (Limited)
Cocking, J. T.
Eschmann Bros. and Walsh
Haywood, J. H.
Liverpool Patent Lint Co.
Robinson and Sons
Sanitary Wood Wool Co. (Lim.)
Scantze, F. and Co.
Thompson, Walters, Hole and Co. (Limited)
Tidman and Son
Wood, F.
Wood, Vincent

**SULFONAL**
Burroughs, Wellcome and Co.
Greeff, R. W., and Co.
May and Baker (Limited)

**SYPHONS**
Barnett and Foster
Bradby and Hinchliffe (Ld.)
British Syphon Co.
Gerant, E., & Co.
Glass Lined Syphon Co. (Ld.)
Kilner Bros.
Thessier, E.

**SYRINGES**
Bock, O.
De Luca, G. V.
Schoenfeld, J. & J. Frères

**SYRUPS**
Fletcher, Fletcher (Liquors)
Idris and Co.

**TABLETS**
Corsan, J. R. (advertising)
Gem Glass Co. (Ld.) (advtsing)

**TEA**
French and Langdale
Gt. Tower St. Tea Co.
Walker and Dalrymple

**THERMOMETERS**
Bailey, W. H., and Son
Bock, O.
Dartou, F., and Co.
Evans, Sons and Co.
Perken Son and Rayment

**TILL**
Stokes, G. R. and Co.

**TINS**
Noakes, B., and Co.

**TOBACCO, CIGARS, CIGARETTES**
Peacock, M. and R.
Singleton and Cole (Lim.)
Tuddy and Co.

**TOILET**
Blackwell, G. G.
Evans, Sons and Co.
Fordham, W. B., and Sons (Lim.)
Hovenden and Sons (Euxesis)
Lloyd, A. S. (Euxesis)
Mumford, G. S.
Queich, H. C.
Rowland, A., and Sons
Truefitt, H. P. (Limited)
Woolley, Sons and Co.

**TOOTH PASTE**
Jewsbury and Brown
Sutton, O. and Co. (Block)
Wilson, A. (Hunter's)
Woods, M. (Areca)

**TRADE MARKS**
Horn & Son

**TRUSSES**
Bailey, W. H., and Son
Colwell, H. M.
Evans, Sons & Co.
Haywood, J. H.
Mather, W.
Thompson, Walters, Hole and Co. (Lim.)
Wood, F.
Wood, V.

**URETHANE**
Howard and Sons

**VACCINATION**
Vaccine Association (Lymph)

**VALUERS AND TRNSFR. AGNTS.**
Berloe and Co.
Bett, F. J.
Crocker, G. B., & Co.
Orridge and Co.

**VASELINE**
Chesebrough Manufctring Co.

**VERMIN KILLERS**
Sanford and Son
Steiner and Co.

**VINOLIA (Superfatted Medical and Toilet)**
Blondeau and Co.

**VETERINARY**
Day and Sons
Day, Son and Hewlett
Eilliman, Sons and Co
James, W. H. (Blisters)
Jeyes' Sanitary Compounds Co.
Lakin, W. H.
Learner, A. J.
Lloyd, T., Howard and Co.
Rookledge, J
Spratts (Dogs)
Walker, Troke and Co.
Wyleys and Co.

**WHOLESALE AND EXPRT DRGGSTS**
Allen and Hanburys
Barron, Harveys and Co.
Burgoyne, Burbidges and Co.
Bush, W., Son and Co.
Bush, W., and Co.
Clay, D. d and Co.
Coward, G. F., & Co.
Dakin Brothers
Evans, Sons and Co.
Evans, Lescher and Webb
Ferris and Co
Fox, W., and Sons
Goodall, Backhouse and Co.
Harker, Stage and Morgan
Harrington, W. and Son (Ld.)
Hearon, Squire and Francis
Hewlett and Son
Hill, A. S., and Son
Hougkinsons, Treacher and Co
Lofthouse and Saltiner
Lloyd, T., Howard and Co.
Macfarlan, J. F., and Co.
Oldfield, Pattison and Co.
Potter and Clarke
Symes and Co.
Thompson and Capper
Thompson, Walters, Hole and Co. (Limited)
Walker, Troke and Co.
Willows, Francis and Butler
Woolley Jas., Sons and Co.
Wright, Layman and Umney
Wyleys and Co.

**WINES, SPIRITS**
Armbrecht, Nelson and Co.
Coleman and Co. (Meat and
Durrant, G. (Orange) (Malt
Goodall, Backhouse and Co.
Idris and Co.
Millar, A., and Co.
Robinson, B.


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| Ess. Bouquet, Frangipane, Jasmin, Jockey Club, Millefleurs, New Mown Hay, Opoponax, Patchouli, Rondeletia, Stephanotis, Ylang Ylang | per 20 oz., | 0 | 8 | 7 |
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| | | | | |
|---|---|---|---|---|
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A reliable Hepatic and Intestinal Stimulant.

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A strong Tonic and Stimulant to the Nervous System, a most successful remedy in Sea-sickness.

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Keeps perfectly, and possesses the characteristic flavour of malt.

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A powerful Sexual Sedative, similar in its action to Potassium Bromide, but without its depressing qualities.

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A non-irritating, tasteless, and certain Laxative in obstinate Constipation.

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Contains 1¼ per cent. of Emetine, and gives a Vinum Ipecac. that is *bright, stable,* and uniformly *active.*

**PEPSIN GLYCER. ACID.**
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**SOL. PEPSIN c. EUONYMIN.**
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859.

PRINCIPAL OFFICE, 42 CANNON STREET, LONDON, E.C.

BRANCH OFFICES:
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Supplied regularly to every member of the following Societies, who have adopted THE CHEMIST AND DRUGGIST as their official organ.

**The Pharmaceutical Association of New Zealand.**

**The Pharmaceutical Society of Queensland.**

**The Pharmaceutical Society of South Australia.**

**The Hobart Chemists' Association.**

**The Launceston Pharmaceutical Association.**

**Otago Pharmaceutical Association.**

**South African Pharmaceutical Association.**

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### VETERINARY COUNTER PRACTICE.

WE regret to have to apologise for a week's delay in the publication of this work. We are now promised copies definitely for April 15, and shall be glad to receive orders for it. The price will be 3*s.* 6*d.*, or 3*s.* 10*d.* post free

THE CHEMIST AND DRUGGIST OF AUSTRALASIA, published monthly at our Melbourne office, can be supplied to subscribers outside Australasia at 5*s.* per annum, payable in advance, and commencing at any date. Chemists interested in the drug trade and the pharmaceutical affairs of the Australasian Colonies will find a full record of all events affecting their occupation in *The Chemist and Druggist of Australasia.* Single copies can be supplied at 6*d.* each Application should be made by English or American subscribers to the office at 42 Cannon Street, London.

### SUMMARY.

THE list of recent patents, on page 480, contains matter worth looking into.

THE turnover of the Army and Navy Co-operative Society last year was close on three millions.

SOME thoughts on the relation of carbolic acid to glycerine, alcohol, and oils are given in an editorial note.

A REMARKABLE case of poisoning with quinine wine is reported in this week's letter from our Paris correspondent.

"As pure as snow" seems to be a mistake. Mr. Maunder has found plenty of ammonia in a sample collected at Malvern.

THE drug markets this week have not been particularly lively. Sales were held on Thursday, and are fully reported in this issue.

SOME interesting contributions to the interesting study of pharmaceutical etymology are furnished by Messrs. Seaton and Story.

CAVENDISH does not agree with Mr. Joseph Cowen, who has been grumbling fearfully about the eminent chemist's personal characteristics.

WE have had some astonishing replies to the letter entitled "What is meant?" A selection of them is given in our correspondence columns.

WE give some particulars of the way in which drug contracts are tendered for. There is room for reform in this matter by boards of guardians.

OUR correspondence columns contain a number of interesting and instructive letters this week. Queries are exceptionally prolific at present.

THE Kingston-on-Thames magistrates have refused to give a chemist a wine licence, and have promised not to convict him should the Inland Revenue authorities prosecute him for selling.

THERE is a likelihood of the Society of Chemical Industry visiting Ireland. We give a report of a meeting held at Dublin, whereat the matter was discussed. An Irish branch of the society will probably be formed.

IN addition to transacting routine business the Pharmaceutical Council this week had before it the names of the candidates for next month's election. There are sixteen for the fourteen vacancies. The Jubilee arrangements were discussed, and reference was made to the Manchester Pharmaceutical Association Scholarship, which has been founded by an anonymous donor of 1,000*l.*

SIX years ago Aberdeen people had the information given to them in newspaper reports of the Pharmaceutical Conference that certain ingredients used in making aërated water contain lead. Now a manufacturer in the northern city has been fined 3*l.* for selling lemonade containing $\frac{1}{64}$ grain of lead in each bottle. The sheriff admitted that this was "an unavoidable result incurred in the process of manufacture." There were several eminent witnesses for the defence, but we have not yet heard the last of the case.

# News of the Week.

LIQUID OXYGEN.—It has recently been discovered that liquefied oxygen has a blue colour. It was formerly supposed to be colourless.

CHEMISTS' ASSISTANTS' ASSOCIATION.—The next meeting will be held at 103 Great Russell Street, W.C., on Thursday, April 9, when a paper will be read on "The Teeth in Relation to Health," by W. Rushton, L.D.S.

FOUR MORE PLEASURES GONE.—The latest form of Band-of-Hope pledge which is being issued here, writes our Manchester correspondent, includes a promise to abstain from "opium, chloral, chlorodyne, and tobacco."

DRUG CONTRACTS AT SHEFFIELD.—The contract for the supply of drugs for the ensuing quarter to the Sheffield Union has been let to Mr. J. M. Furness. The Ecclesall Union contract has been divided between Mr. Furness and Boot's Pure Drug Company.

"THE OPTICIAN," the first number of which has been published this week, comes forward with the comforting feeling that its "presence has long been wanted." Opticians alone, we are told, among traders have lacked the "important factor to commercial prosperity" which a trade journal supplies. It is published at 78 Fleet Street.

FIRE AT A CHEMIST'S.—On Tuesday morning a fire broke out in the basement of the premises occupied by Mr. George Myers, dispensing chemist, Exchange Arcade, Manchester. Information was conveyed to the chief fire-station. The fire was subdued in about an hour, but not before serious damage had been done. The origin of the outbreak has not been ascertained.

INDIAN HUMOUR.—The funny man on the *Madras Times* asks—"Has this a political significance? THE CHEMIST AND DRUGGIST in reply to W. E. G. states that any chemist's printer will supply him with green poison labels to order. Green poison labels! And for W. E. G.! It appears suspicious, but possibly they are only intended for that bottle which the pencil of Mr. Furniss assures us is carried in this worthy gentleman's coat tail pockets, whenever he takes his evening walks abroad and drinks unseen from lonely fountains."

CONGRESS OF HYGIENE.—The Council of the Society of Arts, acting under the provisions of the Benjamin Shaw Trust, have offered two Gold Medals, or two prizes of 20*l.* each, to the Executive Committee of the Congress of Hygiene and Demography, for any inventions or discoveries of date subsequent to 1885 exhibited at or submitted to the Congress, and coming within the terms of the trust. Under the conditions laid down by the donor, these prizes are to be offered for new methods of obviating or diminishing risks incidental to industrial occupations.

FEVER GERMS BY PARCEL POST.—A summons against Miss Bisshopp, matron of the Surrey County Hospital, for sending infected clothing through the Parcel Post without taking proper precautions, was heard at Guildford County Petty Sessions. The evidence showed that a parcel of clothes was erroneously sent to the Surrey County Hospital by Nurse Welch, of Haslemere, who had been attending a scarlet-fever patient. Miss Bisshopp, finding they were meant to be disinfected, repacked the parcel very carelessly—it was alleged by one witness—and sent it through the Parcel Post to the Isolation Hospital, Guildford. The bench held that there had been an offence against the Public Health Act, but thought it was through an error of judgment; they would not inflict a penalty, but would order defendant to pay costs. The magistrates thought Nurse Welch, who originally sent the parcel by rail, much more to blame.

SOCIETY OF CHEMICAL INDUSTRY (LONDON SECTION).—The following members have been nominated to fill the vacancies on the committee of the London section:—Mr. A. F. Cross, F.I.C., F.C.S., analytical and consulting chemist; Mr. J. Heron, F.I.C., F.C.S., president of the Institute of Brewing; Dr. W. Kellner, Ph.D., chemist to the War Department; Mr. G. N. Stoker, F.I.C., F.C.S., chemist of the Board of Inland Revenue; Mr. F. N. Sutton, F.I.C., F.C.S., inspector under the Alkali Act. As the nominations are only sufficient to fill the vacancies, these gentlemen will take the places of the following retiring members under By-law No. II.:—Mr. C. C. Hutchinson, F.I.C., F.C.S.; Dr. R. Messel, Ph.D.; Mr. B. E. R. Newlands, F.I.C., F.C.S.; Mr. J. Spiller, F.I.C., F.C.S., and Dr. C. R. A. Wright, F.R.S. Under By-law No. III. Mr. T. Tyrer, F.I.C., F.C.S., and Mr. T. W. B. Mumford have been nominated chairman and hon. secretary respectively for a second term of office.

THE MEDICAL REGISTER and the Dentists' Register for 1891 have just been published by the General Medical Council, and may be had from Messrs. Spottiswode & Co., 54 Gracechurch Street, or at the Medical Council office, 299 Oxford Street, the Medical Register being sold at 6*s.*, and the Dentists' Register at 3*s.* 4*d.* The former contains 1,255 pages, the latter 234, and each contains, besides the names and addresses of qualified practitioners, the statutes and regulations under which the two professions are governed. The Medical Register now contains 29,163 names, or 815 more than a year ago. Of these 18,147 were registered in England, 6,360 in Scotland, and 4,572 in Ireland. Two names only appear on the "Colonial Register," both being licentiates of the University of Melbourne. The Dentists' Register contains 4,817 names, of whom only about one-fourth are diplomaed. There are still 3,650 persons on the register who were registered on their own declaration as having been *bonâ-fide* engaged in the practice of dentistry before the passing of the Act.

A GOING CONCERN.—The Army and Navy Co-operative Society (Limited) held their annual meeting on Tuesday, the Hon. R. W. Grosvenor in the chair. The report of the directors stated that the sales for the year ended January 31 last had been 2,727,819*l.*, which was increased by miscellaneous revenue to 2,733,371*l.*, being an increase of 77,015*l.* over the amount shown in the previous year. The gross profits from the trading, manufacturing, and miscellaneous accounts amounted to 291,942*l.*, and there was a net profit of 104,236*l.* The gross profit last year came out at 11*l.* 12*s.* per cent., against 11*l.* 14*s.* per cent. in the previous year; and the working expenses had been 6*l.* 17*s.* 4*d.* per cent., against 7*l.* 0*s.* 11*d.* per cent. in the previous year. The net profit had increased by 5,600*l.*, half of which was attributable to increase of trade, and the other half to economy of expenditure. The shareholders voted a gratuity of a week's pay to all servants who had been in the employ of the society for five years, and a fortnight's pay to all whose services had lasted ten years, the gratuity, however, being confined on the present occasion to weekly servants. A new Plymouth agency had proved a complete success, and a depôt had also been established at Bombay. The stock in London had been valued on February 1 at 328,669*l.*

BRIGHTON JUNIOR ASSOCIATION OF PHARMACY.—At the last meeting of this association, held on March 25, Mr. H. Kilby Pears delivered a lecture on "Urine and Water Analysis." In the examination of morbid urine for normal contituents they had only to do, he said, with the estimation of the amount of urea, sometimes uric acid, and rarely chlorides and phosphates, to ascertain whether they were present in abnormal proportions. The abnormal constituents of urine were albumen and albuminous matter, sugar, bile, blood, and pus. The sample to be analysed should be taken from the whole amount excreted in twenty-four hours, and the first thing to which the analyst must direct his attention was appearance. Colour might vary from pale yellow or straw colour to deep orange, all of which were normal conditions, and also to a much deeper colour, which was then abnormal. If bile were present a greenish tint was imparted to the fluid; and if blood formed one of the constituents, a reddish-brown colour resulted; but both must be confirmed by experiments before a definite conclusion was arrived at. Fresh urine was clear, but turbidity might be due to urates, phosphates, or pus. The sediment should be examined separately. The next point requiring attention was the reaction with test-paper Healthy urine was always acid when fresh. This is generally considered to be due to the presence of acid phosphates. Under the heading of urea would be considered what was known as the ammoniacal fermentation of urine, and then the specific gravity

of the fluid, the latter depending on the amount of solids in solution. Healthy urine varied from 1·010 to 1·025 specific gravity. The lecturer then gave details of the processes for the examination of urine for albumen, sugar, &c., and also entered on the subject of water-analysis. An interesting discussion followed.

A CHEMIST'S WINE-LICENCE REFUSED.—At the adjourned licensing sessions for Kingston-on-Thames, held at the Assize Courts on March 26, an application from Mr. John Greenwood, chemist, of London Road, for a certificate sanctioning the grant of a licence for the sale of wine to be consumed off his premises was considered. Mr. Greenwood said the Inland Revenue authorities were enforcing their rules to such an extent that a chemist was unable to carry on his business properly without having a wine-licence. It was not that any new law had been passed, but so many more medicated wines were now sold than formerly that the authorities deemed it necessary that chemists should have this licence. Samples of wines were recently purchased at his shop with a view, he understood, to a prosecution. These licences were being granted in all parts of the country. A magistrate remarked that this was rather opening the door to selling ordinary wines. The applicant said he should not take advantage of the opportunity thus afforded him. He was a rigid teetotaller, but he could not carry on his business properly without a wine-licence. The bench observed that Mr. Greenwood was the only chemist applicant, although the sessions had been adjourned to give others the opportunity. The applicant remarked that he thought these licences were granted as a matter of course. The Chairman: There has been a question settled lately which gives magistrates far more power than was generally supposed. The Applicant: That applies to victuallers. The Clerk: To renewals. The Chairman: It refers to magistrates, and to what they had to do with licences. He went on to say that the bench had decided to refuse this application because they did not think the licence necessary. They left Mr. Greenwood to carry on his business in a proper and legitimate way, and to see what followed upon it. If the Revenue officers took proceedings against him, he would be summoned before the magistrates, and would have the same consideration as he obtained on that occasion. Mr. Cock (a magistrate): If you are summoned, we don't say we will convict. I think it's a case where we would rather not. The Chairman: We don't want to place you in any difficulty, but we think it better not to grant the licence. In reply to the applicant, the clerk said that of course if he were summoned the bench would remember their decision with reference to this application.

## IRISH NEWS.

ALLEGED FORGERY.—Last week, at the Belfast Police Court, a young man named McGahey was sent for trial on a charge of attempting to obtain money on a forged cheque purporting to be signed by Messrs. J. & J. Haslett, chemists and druggists. Sir James Haslett, principal of the firm, gave evidence for the prosecution.

SUBLIMATE POISONING.—On Thursday, March 26, at the Hacketstown Petty Sessions, a young girl aged 12, employed by a farmer named Driver, was returned for trial on a self-confessed charge of having attempted to poison her master and his family by putting into tea a quantity of sublimate kept by the prosecutor for dipping sheep.

THE QUALITY OF DRUGS AT BELFAST.—In his report to the grand jury of the county Antrim, Professor Hodges, F.I.C., F.C.S., says that he has analysed 115 samples of drugs and food received from time to time during the past nine months, including the following articles:—Mustard, pepper, ginger, sulphur, linseed meal, soda, senna leaves, saltpetre, cream of tartar, &c.; and that, with the exception of the package of linseed meal, they were all found to be pure.

EMBEZZLEMENT.—A young man named Michael Denney, a clerk, was convicted at the Dublin Northern Police Court last week on a charge of having stolen 39*l.* 19*s.* 6*d.* from Messrs. Hugh Moore & Co., druggists. The money had been entrusted to him to pay workmen, but he had misappropriated it and gone to London, where he was arrested. His counsel said this was the first charge ever preferred against his client, and he was now prepared to make any restitution he could to the firm. The magistrate sentenced him to six months' imprisonment with hard labour.

SOCIETY OF CHEMICAL INDUSTRY.—A meeting was held at the School of Chemistry, Trinity College, Dublin, on March 24, to consider proposals from the Society of Chemical Industry to hold the next annual conference in Dublin, and also to consider the advisibility of forming a branch of the society in Dublin. The Very Rev. Dr. Molloy presided, and among those present were Rev. Dr. Haughton, Dr. V. Ball, Professor Emerson Reynolds, Sir Charles Cameron, Dr. G. Johnston Stoney, Professor Tichborne, Mr. M'Hugh, Mr. Brunker, Mr. S. H. Johnson, Vice-President of the Society, Mr. Charles G. Cresswell (general secretary). Professor Emerson Reynolds, who acted as hon. secretary, said he had received a number of letters from various parts of the country approving of the proposal. Sir Henry Roscoe had also written in its favour. So far as he (Professor Reynolds) was personally concerned, he distinctly approved of the proposal. The suggestion arose from the Society of Dublin Chemists, and he believed such a conference, and the formation of a branch of the society, would encourage native industries. The chief chemical industries in Ireland were those used in the manufacture of their old friends whisky and porter. (Laughter.) These were the staple industries—quasi-chemical industries. But there were other important industries, such as those which Messrs. Goulding, Mr. Mooney, Mr. Boyd, and others were carrying on in the manufacture of oil of vitriol and various fertilisers. Professor Reynolds then moved the following resolution:—

> That this meeting approves of the proposal for inviting the Society of Chemical Industry to hold its next annual meeting in Dublin and appoints the following as a general committee, with power to add to their number, to make the necessary arrangements for the reception of the society. (Here follow the names of all who had expressed an interest in the society.)

Mr. Johnson (vice-president of the society) said, as the only Irishman on the Council, he had taken upon himself the responsibility of suggesting Dublin as the place for this year's conference, and the proposal had been warmly received. Professor Tichborne predicted that the meeting in Dublin would be a great success, and warmly supported the resolution. Sir Charles Cameron, in seconding the motion, said it was remarkable how few industries they had in Dublin, which was just as well situated as many other towns as regards fuel and skill, and it was important that they should adopt every possible means of reviving old manufactures and introducing others, no matter how small in their way. (Applause.) Mr. Farrington, of Cork, also supported the resolution; and on the chairman putting it to the meeting, it was carried with acclamation. Mr. Johnson mentioned that the conference would probably be held in the first or second week of July.

## SCOTCH NEWS.

DR. PIRIE, who was the chief proprietor of the Dundee Laboratory, is opening up a new drug establishment in Whitehall Street, and is removing the fittings from the shop under the Pillars.

THE MEDICALS are increasing in Dundee as well as chemists: lately three new ones have come to town. Dr. Chisholm Clark, and Dr. Robert Miller are new additions to the east end and Dr. Lowson has established himself in the north end of the town.

AERATED-WATER BOTTLES.—A few weeks ago, Messrs. G. & P. Barrie, aërated-water manufacturers, Dundee, sought by action in the Sheriff Court to ordain a pawnbroker to deliver up to them 21 patent glass-stopper bottles belonging to them, and bearing their name and registered trade-mark. After hearing evidence Sheriff Campbell Smith took time to consider the matter, and last week gave his decision, which is to the effect that the delivery of bottles containing aërated waters on payment of their value is a conditional sale under which the purchasers are not bound to return the bottles or legally debarred from disposing of them in any way they please; and the purchaser who pays the price being

entitled to sell the bottles, any person is entitled to buy them.

An Historical Drug-shop.—In the Dundee Burgh Court-room, last Friday, the old drug-shop in "The Pillars" occupied by Messrs. P. Sandeman & Co, chemists, was offered for a year from Whit Sunday at an upset rent of 66*l*. There was spirited bidding for the tenancy of the shop, and ultimately it was given to Mr John M'Laren, at a rent of 83*l*. The shop has long been known as the Dundee Laboratory, and has been located in the Pillars ever since the Townhouse was built 160 years ago. For a long time it was the only shop there. The same amount of space as is now let for the yearly rent of 83*l*. was let at one time on a tack of twenty-five years for 2*l*. 10*s*. per annum. It is understood that Mr. McLaren has taken the shop for his son-in-law, Mr. John Forsyth, who has for several years been principal assistant to Messrs. James Hardie & Son, whose pharmacy is located on the opposite side of the street to "The Pillars."

Edinburgh Chemists' Assistants' Association.—At the meeting on Wednesday, March 25, the results of the "Ainslie" pharmacy prize-competition were intimated, the "Ainslie" prize being awarded to Mr. J. M. Cameron, 17 North Bridge, with 85 per cent. of marks; and the second prize to Mr. Alexander Murray, 139 Princes Street, with 70 per cent of marks. The third prize was not awarded. Mr. George Lunan, ex-president, then presented the first prizeman with Attfield's "Chemistry" and Bentley's "Botany," and the second prizeman with Balfour Stewart's "Physics" and Gerrard's "Materia Medica." Mr. William Smith read a paper on "Pilula Asafœtidæ Composita." In this he complained of the indefiniteness of the B.P. formula. It is not mentioned whether the gums are to be powdered or not; and if the lumps are used, it is almost impossible to melt them completely. When, however, the gums are powdered and melted according to the B.P process, a mass is produced, which soon becomes so hard as to be almost unworkable. It is, perhaps, owing to the pills becoming so hard, and comparatively insoluble, that they are not so much used now as formerly, because there is no doubt that they possess considerable medicinal value. Why this mass should be heated at all is not very clear. Asafœtida, galbanum, and myrrh each consists essentially of a volatile oil, a resin, and a gum, and during the process of heating a certain amount of the oils, and therefore of the active ingredients, must be driven off. The author made a quantity of the mass, using instead of treacle a little tragacanth, making up the weight with liquorice powder, and using as an excipient rectified spirit 5 parts, water 2 parts, and glycerine 1 part. A very good mass was formed by heating up in a mortar in the usual way. The pills have a stronger odour than the official ones, indicating no loss of volatile constituents. The only objection to this method is that the pills pit slightly when kept for a week or more. Following B.P. lines, but using glycerine instead of treacle, the result was a better pill in every respect than the official one. The gums melted more readily than in the treacle; it was a nicer mass to work, and the pills kept their shape very well. Owing to the gums melting more readily in the glycerine, less heat is required, and this, of course, is an advantage. He suggested the following formula:—Asafœtida, galbanum, and myrrh, of each 2 parts; glycerine, 1 part. Powder the gums with a drop of spirit, and melt, along with the glycerine, on a water-bath to a suitable consistence. Mr. Hill then gave a description of the manufacture of nitric acid, illustrated by diagrams and experiments.

## Gazette.

### PARTNERSHIPS DISSOLVED.

Hazlehurst, C. W., & Salkeld, J. H., under the style of Hazlehurst & Son, Runcorn, soap and alkali manufacturers.

York-Davies & Atkinson, Sherborne, physicians and surgeons.

### THE BANKRUPTCY ACTS, 1883 AND 1890.

Adjudication.

Foggin, John, Newcastle-on-Tyne, surgeon.

## FRENCH PHARMACEUTICAL NEWS.

*(From our Paris Correspondent.)*

The Death is Announced of Dr. Ernest Clin, formerly professor of chemistry at the School of Medicine. The first introduction of antipyrin into France is attributed to Dr. Clin.

The Pasteur Institute.—The report has just been issued of this institute for 1890. It shows that of 1,546 persons treated for hydrophobia, only ten died. The cases included bites by cats, dogs, and wolves.

Victory in Defeat.—The chemist, Mr. Schlumberger, against whom an action was brought by the Bank of France for producing imitation bank-notes, has been condemned to pay a fine of 20*l*. and such damages as an expert may assess. The chemist has thus succeeded in proving an assertion, contested by the Bank, that the present French bank-notes are imitable. This satisfaction may be to him a compensation for the considerable pecuniary loss he will sustain.

A Serious Fire occurred last Monday in the warehouses of Mr. E. Farinet, dealer in chemicals, 11 Rue d'Hauteville. A porter had occasion to move a large bottle of benzine, and carelessly set fire to the contents with a candle. An explosion of extreme violence took place, and the whole of the premises were soon in flames. The originator of the fire was terribly burned. The firemen, on arrival, found him enveloped in flames, but saved his life by covering him with sand. Mme. Farinet was also much burned. The losses are considerable.

A Protest.—The Syndicate of Pharmacists of the first class of the Seine Department have addressed a letter to the President of the Academy of Medicine, which was read at the last meeting of that body. These pharmacists protest against the accusations imputed to members of their profession, who, it has been asserted, willingly dispense morphine without a doctor's prescription. They also referred to the question of re-dispensing hydrochlorate of morphine from a medical prescription. This letter was referred to the pharmaceutical section of the Academy for consideration.

The Mixed Faculty of Medicine and Pharmacy of Toulouse.—The Minister of Public Instruction has just nominated the various professors for this university Those for the section of pharmacy comprise:—For chemistry, Mr. Marie, pharmacist of the first class; for materia medica, Mr. Bœmer, superior pharmacist; and for pharmacy, Mr. Frébault, superior pharmacist. The instruction to students in physics, chemistry, and natural history during the first year of their course will be given by the Faculty of Sciences, to which the following professors have been specially attached:—Mr. Lamie, superior pharmacist, for botany; Dr. Roule, for zoology; Mr. Destrem, for chemistry; and Mr. Mathais, for physics. The new faculty was formerly opened on April 1.

Cure for Yellow Fever.—An original method for the cure of yellow fever by refrigeration formed the subject of a paper at the Academy of Medicine an March 24. A Chilian physician is credited with its discovery, and it is said to have been successful in eighteen cases out of twenty. A double zinc case is surrounded by ice. Into this case the patient is introduced, having first taken a laxative The outside air on being allowed to enter forms a vapour, which (claims the inventor of the process) being absorbed by the mucous membranes, mixes with the blood, dissolves the solvent poisons therein contained and produces diuresis. It is said that the inventor is to visit Paris to further explain the method, which at present is not accepted here without a certain reserve.

Quashing Enterprise.—Messrs. Gerard & Senot, proprietors of a pharmacy at Lyons, were put upon trial last week for sale of secret remedies and outrage of public morality. For some time since, it would appear, "Dr. Eberhardt's antiseptic vegetable salt" had been freely advertised by the two prisoners. In the streets of the silk metropolis thousands of prospectuses had been sown broadcast, showing the symptoms and treatment of the maladies

to which the pretended remedy was applicable. These pamphlets contained details of such a character, illustrated by engravings, that the court founded thereupon an indictment for offence against public decency. At the trial, Dr. Crolas, pharmaceutical inspector, explained that the "vegetable salt" in question was a secret remedy, not registered in the French Codex, and having, besides, no curative properties. The pretended Dr. Eberhardt, also, had never existed. The court sentenced each of the prisoners to a fine of 24*l.* for sale of secret remedies, in addition to six months' imprisonment and 40*l.* fine each for the outrage on public morals.

Poison in Quinine Wine.—A sad case has lately occurred at Le Rainey, a suburb of Paris. A widow, named Mme. Tardiveau, died on Saturday, and her decease was attributed to consumption. On the day of the funeral a daughter of the dead lady gave a partially-emptied bottle of quinine and Malaga wine to a Mme. Goualin, who had attended the mother as nurse. This wine had been bought for the use of the deceased. Mme. Gonalin took a little of the wine, and died in less than half an hour. Unfortunately, no one thought of attributing the cause of death to the Malaga, for later in the day M. Goualin, his daughter, and a friend drank some of the wine, and soon after they all showed symptoms of poisoning. A doctor was immediately called. He succeeded in saving the girl's life, but the father and the friend died during the night. The bodies of Mmes. Tardivean and Goualin have been exhumed by order of the police, and a post-mortem examination of the corpses has been made. The viscera of the four victims has been forwarded to M. Lhote, expert-chemist, for analysis. The bottle of quinine and Malaga wine was purchased in December last from M. Acard, chemist, 328 Rue St. Martin, Paris. In the course of an interview, this gentleman expressed the horror he experienced on learning the terrible news, but he added that, the more he thought of the matter, the more he was convinced that the quinine wine sold by him could contain no poisonous substance. It appears that M. Acard prepares his quinine at his laboratory at St. Mandé, outside Paris. By following this course he is able to profit by a reduction of about 2*d.* per quart on medicated wines. About December 20 last he prepared a cask of 120 litres of quinine and Malaga wine. Two days later a married daughter of Mme. Tardiveau purchased two litre bottles of the recently prepared wine, and sent one to her mother, the drinking of which has produced such disastrous results. It appears that Mme. Tardiveau's daughter returned the second bottle owing to it being too sweet. M. Acard and his assistants tasted it, but without suffering in any way. In fact, the whole of the wine prepared on December 20 has been sold without any complaint being made, saving that from Le Rainey. The pharmacist declines all responsibility in connection with the matter. He says that if there was poison in the wine, it must have been added criminally or by mistake. It should be mentioned that Mme. Tardivean's son has made a statement to the effect that he remembers his mother having asked him to mix what she called quinine-powder with the wine. What this powder really was is not yet known.

## MARRIAGE.

[*Notices of Marriages and Deaths are inserted free if sent with proper authentication.*]

Mundy—Andrews.—On March 30, at Christ Church, Lancaster Gate, by the Rev. Moore R. Neligan, M.A., Alfred Jones, eldest son of Alfred Octavius Mundy, of Norton Folgate, to Ethel, youngest surviving daughter of Frederick Andrews, pharmaceutical chemist, of Leinster Terrace, Lancaster Gate, W.

## DEATHS.

Green.—On March 28, at Fairfield Lodge, The Sands, Swindon, Jane, wife of John Green. Aged 38 years.

Orme.—On March 27, Mr. William Orme, chemist and druggist, Atherstone, Warwickshire. Aged 50 years.

## Personalities.

Professor Attfield, F.R.S., has been elected an honorary member of the Maryland College of Pharmacy.

Mr. F. W. Fink, of the firm of Lehn & Fink, drug merchants, of New York, visited London a few days ago. He has now left for the Continent.

Mr. G. T. Archibald, chemist and druggist, Workington, has been elected a member of the School Board for that town. Mr. Archibald's name stands second on the list.

It is probable that Dr. Victor Cohlenz, the newly-appointed professor of pharmacy at the New York College of Pharmacy, will attend the jubilee of the Pharmaceutical Society.

Mr. Thomas Winterton announces that he has established business at 4 York Street, Glasgow, as a drug, gum, and essential-oil merchant and drysalter, under the style of T. Winterton & Co.

Mr. Thomas Tyrer, F.I.C., F.C.S, of the Stirling Chemical Works, Stratford, has been elected on the Council of the London Chamber of Commerce. He is already the chairman of its chemical section.

Dr. B. H. Paul, the editor of the *Pharmaceutical Journal*, has been appointed Worshipful Master of the new Galen Lodge of Freemasons which was consecrated on Lady Day last, and is to be used by pharmaceutical masons only.

Mr. W. Dyer, pharmaceutical chemist, of the Corn Market, Halifax, has lately opened a stylish, new electrically-lighted pharmacy in place of the ancient timber-built shop which he has hitherto occupied. The elegant shop fittings were all supplied by Messrs. Evans, Sons & Co., Liverpool.

Mr. John Morgan Richards, of 46 Holborn Viaduct, has been on for a flying visit to the States, and is returning home by the *Aurania*, which left New York on March 28. Mr. Richards was for many years connected with the old New York firm of Demas Barnes & Co., which was a power in the drug trade a quarter of a century ago, and first came to London in the interests of that firm.

## NEW COMPANIES.

W. & T. Avery (Limited).—This company has been registered with a capital of 200,000*l.* in 10*l* shares to purchase and acquire the business hitherto carried on by Messrs. W. B. & H. J. Avery, the well known scale-makers. The first directors are the gentlemen mentioned, with a salary of 900*l.* per annum each.

Alum, China-clay, and Vitriol Company (Limited).—Capital of 50,000*l.* in 10*l.* shares. Object, to carry into effect an agreement made March 17, between James Francis Mason and Francis Tress Barry of the first part, Alfred Singer Chinnock and Charles Edward McLaren of the second part, and Sydney Flower Jackson, on behalf of the company, of the third part; and also an agreement made March 18, between James Francis Mason and Francis Tress Barry, of the one part, and Alfred Singer Chinnock and Charles Edward McLaren, of the other part, to acquire the business of a chemical manufacturer, and to develop and extend the same. The first subscribers, who take and share each, are:—J. F. Mason, Eynsham Hall, Witney, Oxon; J. G. Barry, 87 Cannon Street; D. H. Barry, 23 Palace Gate, W.; A. S. Chinnock, 18 Kent Terrace, Regent's Park; C. E. McLaren, Palace Chambers, Westminster; F. T. Barry, St. Leonard's Hill, Windsor; L. S. Long, 4 St Andrew's Place, Regent's Park. There shall not be less than three nor more than seven directors. The first are James Francis Mason, J. G. Barry, D. H. Barry, A. S. Chinnock, and C. E. McLaren. The qualification is 500*l.*, and the remuneration 100*l.* each.

# Pharmaceutical Society of Great Britain.

## COUNCIL MEETING.

THE photographer was the principal attraction at Bloomsbury Square on Wednesday. He had his camera in the gardens, and in front of it were Messrs. Michael Carteighe (President), Alexander Bottle (Vice-President), R. Hampson (Treasurer), A. C. Abraham, C. B. Allen, S. R. Atkins, W. G. Cross, T. P. Gostling, T. Greenish, John Harrison, Walter Hills, Marshall Leigh, W. Martindale, G. T. W. Newsholme, J. G. F. Richardson, David Storrar, W. Warren, and James Watt, Mr. Richard Bremridge, Secretary and Registrar, also finding a place in the group; but Messrs. G. Evans, G. F. Schacht and Alfred Southall were not there. The momentous occasion over, the Council proceeded to what ought to have been more serious business in the Council chamber. It was anything but that, however. Our reporter exhausted his morning paper while the members were engaged in conversation, and it was only occasionally that he could catch the Council at public business. After the minutes were disposed of, and a long list of elections and restorations gone through, the Secretary brought on his list of

### NOMINATIONS FOR THE COUNCIL.

Twenty-five persons had been nominated, and of these the following sixteen had expressed their willingness to act if elected, viz. :—

Abraham, Alfred C., Liverpool
Allen, Charles B., London
Atkins, Samuel R., Salisbury
Bottle, Alexr., Dover
Botwood, Charles W., Dartford
Cross, W. Gowen, Shrewsbury
Gostling, T. P., Diss
Greenish, Thomas, London
Harrison, John, Sunderland
Leigh, Marshall, Brighton
Martindale, William, London
Newsholme, G. T. W., Sheffield
Schacht, G. F., Clifton
Southall, Alfred, Birmingham
Spink, H. W. Bowman, London
Watt, James, Haddington

Messrs. Botwood and Spink are not at present on the Council: all the rest are. The nine who decline to act are :—

Broad, J. Morris, London
Coleman, Alfred, Cardiff
Grose, Nicholas N., Swansea
Hopkin, W. K., London
Icke, Henry Scott, London
Lance, W. W. George, London
Savory, A. Ludsam, London
Woolley, George S., Manchester
Wells, F. F. Percy, London

The present auditors have also been nominated. They are—

F. Harwood Lescher
S. Lloyd Stacey
Charles Umney
W. Manning Watts
Francis Yates

### AFTER A PAUSE,

and a long confab between the President and the Treasurer, the second reading of the by-laws was moved by these gentlemen. It was merely a formal matter, and a few seconds served to dispose of it. Next there was the

### FINANCE COMMITTEE'S REPORT.

On the general or Society's own account there was a balance of 459*l.* 1*s.* 9*d.* on March 1, and since then 837*l.* 12*s.* 9*d.* has been paid in subscriptions, and 1,087*l.* 16*s.* for examination fees, altogether 2,384*l.* 10*s.* 6*d* The accounts, &c., ordered at last meeting and since paid, amounted to 1,169*l.* 7*s.* 7*d.*, so that a balance of 1,215*l.* 2*s.* 11*d.* was in hand on March 31, and it was agreed on Wednesday to pay sums altogether amounting to 2,382*l.* 18*s.* 2*d.* This sum includes quarterly salaries and annuities, monthly salaries, printer's accounts, current expenses, &c. The Benevolent Fund balance is at present 1,138*l.*, 298*l.* having been received in subscriptions last month, as well as 15*l.* 15*s.* in donations, bringing up the balance on the latter to 66*l.* 11*s.* 6*d.*

Mr. CROSS, apparently by arrangement with the President, who has hitherto done this job, moved the adoption of the report, which was agreed to without comment.

### THE BENEVOLENT FUND.

The committee had considered six cases, and reconsidered one without altering the decision previously arrived at. To two applicants, grants of 15*l.* each were made, and to three grants of 10*l.* each. The sixth case was deferred for further inquiry.

The VICE-PRESIDENT, in moving the adoption of this report, mentioned that a widow who had recently been relieved by the fund and placed in the way of making a living, was likely to succeed so well as to require no further aid. He wished all pharmaceutical Freemasons to note the case of Mr. William Howe, of Bournemouth, who was formerly in business at Dorchester, and is now an applicant for admission to the Masonic Institute. Mr. Howe was a candidate at the last Benevolent Fund election. Mr. Bottle hoped that the votes would be given to him on this occasion.

Major RICHARDSON supported the Vice-President, and explained that it was the Institute for Aged and Decayed Freemasons that Mr. Howe was applying to get into. Now that they had established a Masonic Club in connection with the craft he hoped that those who had votes would give them in support of Mr. Howe.

After a few remarks from Mr. Atkins, the report was adopted, as was also a motion to pay the annuitants a quarter's allowance up to Whit-Sunday.

### THE LIBRARY REPORT

contained a number of interesting items. The librarian, curator, and school staff, reported upon their respective departments, which all flourish exceedingly. The drafting of the annual report is left in the hands of the President.

The committee had reconsidered its previous recommendations as regards the celebration of the jubilee, and now proposed that *the* celebration should take the form of a meeting in the lecture theatre on the evening of Tuesday, May 26, at which addresses would be received. Ladies would be invited, and after the meeting there would be music in the examination hall for an hour or two, refreshments being provided in the old building.

The Galen Masonic Lodge had made application to be allowed to use the Society's coat of arms, and the committee recommended that permission should be granted.

Accommodation for research was considered and the West Room, in the Galen Place building, recommended for physical experiments, provision for new shelving, tables, &c., also being detailed.

Spring cleaning was the last item. This is to include repainting No. 17 Bloomsbury Square on the outside, re-cleaning and painting the lecture-theatre, and executing other necessary repairs and alterations.

The PRESIDENT, in moving the adoption of the report, stated that the committee had fully considered all that had been said regarding the jubilee celebration at the last meeting, and had decided upon the course recommended in the report. It was not intended that the celebration meeting should be a *conversazione*, but full opportunity would be provided for social intercourse, and he would remind those who were desirous of having a more elaborate affair that there was to be a dinner on the following night, for which invitations had been sent to persons abroad and representatives of pharmacy in the Colonies and United States. As the annual meeting was to be on that day there was some difficulty in getting official and necessary work into the two days. That was one reason why they could not have a *conversazione* as well as a jubilee meeting. If visitors from the country could come on the Monday, staying until Thursday, it might be possible to squeeze in a *conversazione* on the Monday night. But, after very careful consideration, the committee came to the conclusion not to put forward a *conversazione*. As to having it in an outside place where pictures and the like could be seen, that really came to this, that there was no place but South Kensington Museum which would suit, and it could not be got on the Tuesday evening. The President then touched lightly, in an explanatory fashion, upon the other items in the report.

A short and unreportable conversation ensued. It seemed that there would be no formal speeches had not the President, more in fun than in earnest, asked Mr. Marshall Leigh what he had to say.

Mr. LEIGH said it seemed a pity that, after having had

*conversaziones* year after year, they should not have one this year, when there is a special occasion for it. He would have made something especially interesting and attractive to commemorate the jubilee, but a day or two ago he had received the financial statement. This showed their condition to be so unsatisfactory that there was very good reason why they should not go to the expense of a *conversazione*. He therefore begged to withdraw all that he had said at the last meeting.

Mr. NEWSHOLME was of the same opinion as Mr. Leigh, viz. that there ought to be a *conversazione* this year, and one of the biggest things of the kind, but when he saw the financial statement he changed his mind about that. The wonder was why they did not find out the weakness of their financial position before, and yet he was prepared to spend a hundred or two in order to have a *conversazione* in the house.

Mr. HARRISON questioned if the lecture theatre would be large enough to hold all the people who would attend the meeting. There was only accommodation for two hundred or so. Could a larger hall not be obtained?

The PRESIDENT said that the theatre would hold about three hundred, and the committee were told at the last meeting that they must hold the celebration in the house and the *conversazione* outside. They could get the Holborn Town Hall if necessary.

Mr. ATKINS said it would create a bad impression if it went abroad that they were limiting the jubilee celebration owing to the condition of their finances. It was really not so. (Hear, hear.) He thought that the meeting for the reception of addresses would not be so popular as was supposed, that was to say the lecture theatre would suffice to hold all that would come, and later in the evening the whole premises would be open to the visitors. He instanced the experience of the Chemical Society in support of his view, but the particular point of his remarks was that the proposals of the committee were not a *reductio ad absurdum* owing to expense.

Mr. HAMPSON was also satisfied that the arrangements would be ample, and, after a remark from Major Richardson, the President, closed the discussion, agreeing with Mr. Newsholme that a *conversazione* could be held in the house.

### A SEMI-JUBILEE.

At this stage the PRESIDENT intimated that the committee of the chemists' ball had paid 27*l.* 1*s.* 6*d.* into the Benevolent Fund, making its contributions during its twenty-five years' existence 500 guineas.

### THE AUDITORS' REPORT

was placed upon the table, the PRESIDENT remarking that it would be issued along with the Annual Report next month.

It was announced that No. 15 Bloomsbury Square had been let to a firm of solicitors at 230*l.* a year, and the seal of the Society was ordered to be attached to the lease. The last business was in regard to the new

### MANCHESTER PHARMACEUTICAL ASSOCIATION SCHOLARSHIP.

The PRESIDENT recalled the circumstances of its foundation. A gentleman, who does not wish his name to be disclosed, but who was present at the Pharmacy Bill meeting in Manchester, desired to do something for the furtherance of education, and intimated, two months ago, through the Manchester Pharmaceutical Association, that he would found a scholarship. Money and debentures, roughly equivalent to 1,000*l.*, had now been lodged with the Society's solicitors, and the Council were appointed trustees, along with the Manchester Pharmaceutical Association. The conditions of the scholarship would be published ere long, but, meanwhile, he would say that the first competition would take place in July of next year; the age would be different from that of Bell scholarship candidates, and it would be stipulated that candidates should live in Lancashire or the adjoining part of Derbyshire. The successful candidates would study at the Society's School of Pharmacy, or at some provincial school approved by the Society. The last condition was one made by the donor, who looked forward to the time when education would have a recognised position all over the country. The President proceeded to state that the Society would gain nothing by the gift—they would merely act as trustees; and after explaining that the terms of the trust-deed were similar to what occurred in the Bell trust, he remarked that the gift was a particularly gratifying one to the Society. He would not be sorry if other gentlemen in Great Britain would imitate this example. On behalf of the Society he expressed its cordial thanks to the donor, who was conferring an advantage upon the rising generation which they would appreciate. (Applause.)

Mr. ATKINS asked if the deed contemplated the continuance of the Manchester Pharmaceutical Association?

Major RICHARDSON: That is rather an important point.

The PRESIDENT: That is provided for.

Mr. ABRAHAM asked some questions regarding the examination: What would it be? The same as the Bell-scholarship one? And, if so, what position would the Manchester student be supposed to take?

The PRESIDENT replied that it would be a different examination altogether, but held at the same time in the local centres.

Mr. HAMPSON, as "a Lancashire lad," had pleasure in seconding the resolution. He trusted that others would follow the example set by the kind-hearted man who preferred to give his gifts anonymously. Even if the Pharmacy Bill did not pass they would have cause to thank Mr. Carteighe for inspiring the gift, although he would not claim that his visit alone had prompted it. There might be disadvantages in limiting a scholarship to a district, but on the whole he thought that the advantages far outweighed any disadvantages which might be urged against localised scholarships.

Mr. MARTINDALE took it that the investment would yield 30*l.* a year; but that would not include education, as in the case of the Bell scholarships.

The PRESIDENT indicated that that interpretation was correct.

Mr. HARRISON, referring to Mr. Hampson's remarks, reminded him, in the words of a man whom he (Mr. Hampson) was proud to follow, that "what Lancashire says to-day, England says to-morrow." (Laughter.) He thought there was a great advantage in localising scholarships in this way, and what they wanted was a great many more liberal men to come forward and establish such scholarships as this one. The advantages of creating local interest were great; and, as another "Lancashire lad," he desired to support the vote of thanks to the donor.

Mr. HAMPSON briefly explained that he did not say there were disadvantages. The President put the motion to the meeting; it was carried unanimously, and afterwards the President expressed his indebtedness to Mr. F. Baden Benger for his assistance in carrying the matter through.

This was all the public business.

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## AT THE COUNTER.

DRUGGIST AND DEAF CUSTOMER.—Druggist (to deaf Customer): "The price is seventy-five cents." Deaf Customer: "Five cents? Here it is!" Druggist (louder): "Seventy-five cents, please!" Deaf Customer: "Well, there's your five cents!" Druggist (very loudly): "I said s-e-v-e-n-t-y-five cents!" Deaf Customer (getting angry): "Well, what more do you want? I just gave you your five cents." Druggist (*sotto voce*): "Well, go to thunder with your medicine; I make three cents anyway.—*Maritime* (U.S.A.) *Medical News.*

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A NATIVE DRUGGIST IN INDIA sent the following on a post-card to a Madras house:—"Sir,—I wrote a letter to you before this to send ten ozs. of syrup ferri iodid. medicine. Yet you did not sent; therefore please sent Ten ozs. of syrup ferri iodid. medicine by value payable post to the undersigned. Please sent very soon, very soon."

A month later it was put this way:—"27th December, 1890. W. E. Smith & Co., dispensing and pharmaceutical chemists. Sir,—With reference to your honor please send Ten (10) ozs. of sulphur ferri iodid. medicine as you send before this. Please send this medicine in one bottle before the 30th instant. Do not forgot."

LEAD IN LEMONADE.—At the Sheriff's Court, Aberdeen, on March 25, before Sheriff Brown, Kenneth Cameron, sanitary inspector, brought an action against George Sangster, an aërated-water manufacturer, alleging that on February 5 the accused had sold to the complainer to his prejudice an article of food—*videlicet*, a quantity of lemonade—which was not of the nature, substance, and quality demanded by the purchaser, and which was injurious to health, in respect that it contained a foreign ingredient—namely, lead—to the extent of ·25 grain, or one-fourth grain, per gallon, contrary to the Sale of Food and Drugs Act, 1875, and the Sale of Food and Drugs Amendment Act, 1879, particularly section 6 of the first Act.

Mr. Ruxton, who defended, contended that if the charges alleged were made out, the offence came under the third section of the statute, and not under the sixth section. He contended that section 6 was really meant to get at the man who was cheating the public. By introducing the element of injury to health they took this case away from section 6, and took it back to section 3.

Mr. Lamb, who prosecuted, said this complaint might have been brought either under section 3 or section 6. If he had brought it under section 3 there must be active mixing; there must be guilty knowledge.

The Sheriff said that under section 6 guilty knowledge was charged, and section 5 said defender was entitled to exemption in that case.

After a lengthy discussion, the Sheriff allowed the prosecuting counsel to delete from the charge the words "injurious to health," holding that it then became a good charge under section 6.

Kenneth Cameron, sanitary inspector, having proved the purchase of the lemonade, produced the report by Mr. Jamieson, the city analyst, which was to the effect that he had found lead to the amount named in the summons in the sample analysed.

Mr. Jamieson, city analyst, said he had analysed twelve other samples at the same time as this. Ten of these showed traces of lead, and three did not. He had been city analyst for about twelve years, and during that time he had analysed many specimens of water taken from houses in Aberdeen. He did not think in any case he had found a trace of lead in the Aberdeen water-supply. He was not familiarly acquainted with the machinery for the manufacture of aërated waters.

By Mr. Lamb: A great deal depended on the acids used whether there was lead or not. It was a common thing for lead to be in acids because they were not carefully looked to.

Re-examined: Citric acid was not always made in leaden vessels. He did not think the ordinary commercial articles contained traces of lead. Sulphuric acid was generally prepared in leaden chambers.

Assuming that you had got these three ingredients in the preparation of aërated waters—gas, water, and acids—am I right in saying that lead might get into the article from all these different agents?—Yes.

By Mr. Lamb: In point of fact, three samples did not contain any trace of lead. A fourth of a grain per gallon was a very large trace.

For the defence, Dr. Matthew Hay, Professor of Medical Jurisprudence in Aberdeen University, was called to testify that nearly all waters supplied to towns through lead pipes contained minute traces of lead.

Henry Jones, assistant professor of chemistry at the University of Aberdeen, said he had analysed a great many samples of water in Aberdeen, and had found lead in every case where the water had been allowed to remain at rest for a considerable period in leaden cisterns. He had also analysed a number of aërated waters for different manufacturers. In waters from the same works he found lead sometimes present and sometimes not in the same day. He was engaged in investigating the cause of lead-contamination in one case, and he might be able to suggest a remedy. To the sheriff he said he had examined aërated waters made in Aberdeen which were perfectly pure.

Dr. Fraser, professor of materia medica in the University of Aberdeen, gave evidence as to lead-poisoning to the same effect as Dr. Matthew Hay.

Mr. William Anderson, aërated-water chemist, Glasgow, said he had twenty years' experience of the manufacture of aërated waters. He had examined the works in St. Clair Street conducted by the defendant. The machinery used there was of the ordinary nature. The vessel used as a generator was in almost all cases made of lead, there being, to his knowledge, only two exceptions to this in Scotland. Nearly all aërated waters would, he thought, be found to contain a slight quantity of lead. A purifier or generator not made of lead might remedy this.

Mr. Sangster, the defendant, said he had been for over twenty years in the aërated-water business, and had always tried to keep his waters free from impurity. During the process of manufacture nobody under his direction, or with his authority, introduced lead, and there would have been no motive for doing so, or profit resulting from it. He had seen a few of the other manufactories in Aberdeen, and his machinery was the same. He had had his productions examined by Mr. Jones. If any improved apparatus were suggested he would be prepared and desirous to adopt it. If there was any lead found in waters made by him it must have found its way there unavoidably.

Cross-examined by Mr. Lamb: Water manufactured by him had previously been analysed by Mr. Cameron, who warned him about it. This was a few years ago. Mr. Cameron told him the percentage of lead found in it, but he could not recollect the figure. Witness took steps to prevent a recurrence of this, and had the lead pipes cleared out and substituted by tin pipes. He did not get his waters analysed after that.

Mr. Ruxton said he had got a letter from the city analyst of Edinburgh, stating that he had examined the waters of all the Aberdeen manufacturers, and found traces of lead in the waters of those not brought up for prosecution. He could not, however, put in this letter as evidence.

Sheriff Brown reserved judgment till Tuesday last, in the course of which he justified his ruling allowing the action to proceed under section 6. He considered that the article sold was to the prejudice of the purchaser, and he could not admit that the defendant had brought himself within the exemptions provided by subsections 1–4 of section 6, as, in his opinion, the defendant had proved that the lead found in the lemonade sold by him was a result unavoidably incurred in the process of manufacture or preparation. The sentence of the court would be that the defendant should pay a fine of 3*l.*, or suffer 14 days' imprisonment.

Mr. Ruxton, advocate for the accused, asked the Sheriff to state a case. Two other cases were adjourned till April 28.

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MESSRS. STEVENSON & HOWELL have taken over the entire plant, stock, trade-marks, &c., of the Santha Tea Company (Limited), late of Darjeeling Works, Penarth Street, Hatcham, and are now prepared to supply Santha tea and pure extract of tea direct from their works in Southwark Street upon precisely the same terms and conditions as heretofore.

CARBOLIC-ACID POISONING.—Annie Gertrude Pringle, of 88 Fulham Road, the widow of a gentleman who held a position in a Government office, committed suicide on Wednesday night with carbolic acid. At the inquest Wm. Watson, a medical specialist, her lodger, said Mrs. Pringle was often very hard pressed for money, and this circumstance was really the cause of her suicide.

## DEEDS OF ARRANGEMENT.

**The following deeds of arrangement with creditors have been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1887. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision, in the Act, making any of these arrangements binding upon dissenting creditors.**

**Hill & Dale,** 20, 21, and 22 Thwaites Arcade, Blackburn, late of 40 Market Street, Darwen, patent-medicine vendors, grocers, and wine merchants (partners, Elizabeth Fox, spinster, 150 Montague Street, Blackburn, and Helena Fox, wife of Charles Fox, 17 Colne Road, Burnley, trading as).—Assignment of partnership business estate of Hill & Dale upon trust, &c. Trustee: John P. Garnett, 22 Booth Street, Manchester (C.A.), with a committee of inspection. Dated March 20, 1891. Filed March 25, 1891. Unsecured liabilities, 1,563*l.* 13*s.* 9*d.*; estimated net assets, 1,507*l.* 2*s.* 4*d.* The following are scheduled as creditors:—

| | £ | s. | d. |
|---|---|---|---|
| Aspinall, Aspinall & Co., London | 13 | 5 | 8 |
| Bell, R., & Co., Limited, London | 18 | 15 | 0 |
| Batger & Co., London | 41 | 6 | 0 |
| Beazley, R., & Co., London | 13 | 13 | 5 |
| Bourne, Johnson & Latimer, London | 13 | 9 | 6 |
| Brooks, Exell & Co., Manchester | 13 | 17 | 11 |
| Cresswell Bros., London | 32 | 2 | 7 |
| Crown Perfumery Company, London | 11 | 7 | 7 |
| Eastwood, Hy., Burnley | 95 | 0 | 8 |
| Field, J. C. & L., London | 13 | 1 | 9 |
| Fox, R., Burnley | 350 | 0 | 0 |
| Gardner, R. C., & Co., Liverpool | 52 | 17 | 6 |
| Humphries & Co., Bradford | 23 | 1 | 8 |
| Jackson, W. & H., Liverpool | 34 | 0 | 6 |
| Jones & Thew & Co., Liverpool | 13 | 16 | 4 |
| Kreuger & Co., London | 22 | 10 | 0 |
| Lazenby, E., & Son, London | 17 | 6 | 1 |
| Mason, W. B., London | 17 | 17 | 3 |
| McLardy & Co., Manchester | 10 | 8 | 9 |
| Middlemas, R., & Son, Edinburgh | 50 | 18 | 7 |
| Petty, J. W., & Sons, Leeds | 21 | 5 | 0 |
| Rowntree, H. J., & Co., York | 14 | 1 | 4 |
| Shorrock, J., Blackburn | 18 | 15 | 6 |
| Smith, T., & Co., London | 16 | 2 | 6 |
| Thompson & Capper, Manchester | 10 | 4 | 6 |
| Thompson, John, Liverpool | 265 | 19 | 9 |
| Titterton & Howard, London | 22 | 8 | 4 |
| West, Thomas, Stretford | 14 | 3 | 11 |
| White, A. J., Limited, London | 10 | 1 | 0 |
| Yardley & Co., Limited, London | 10 | 12 | 0 |

**Varlow, Joseph William,** 37 Mile End Road, South Shields, and 36 Camden Street, Tynemouth, chemist. Trustee: William A. Smith, King Street, South Shields. Dated, March 18, 1891; filed, March 23, 1891; unsecured liabilities, 188*l.* 6*s.* 10*d.*; estimated net assets, 30*l.*

| | £ | s. | d. |
|---|---|---|---|
| Gray, Mrs. Elizabeth, Sedgefield | 116 | 11 | 4 |
| Ismay, J., & Sons, Newcastle | 43 | 13 | 0 |
| MacKay, Mr., Newcastle | 10 | 0 | 0 |
| Philipson, Mr., North Shields | 2 | 12 | 6 |
| Rogers, J. J., North Shields | 15 | 10 | 0 |

ABOUT TROPICAL PRESERVES.—The demand for Indian preserves and jams has greatly increased during the past few years. In India preserves and jellies are made of the pear, quince, mango, tamarind, date, banana, guava, and other fruits. In Singapore pineapples are preserved whole; and in the Bahamas the manufacture is also carried on upon a large scale, to the extent of nearly one million cases annually. In Singapore much enterprise has been shown in preserving tropical fruits. Among other fruits, &c., preserved in their natural state, in syrup, crystallised with sugar, or made into jelly, are the breadfruit, ginger, jackfruit, papaw, mangosteen, pomelu, nutmeg, &c. Indian preserves were formerly much in request. Thus in the thirteenth century the most renowned preserve was a paste made of candied ginger.

## TRADE-MARKS APPLIED FOR.

THE *Trade Marks Journal* publishes the following notice:—"Any person who has good grounds of objection to the registration of any of the following marks may, within one month of the date of this journal, give notice in duplicate, at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1890, of opposition to such registration." All communications to be addressed to H. Reader Lack, Esq., Comptroller General, at the Patent Office, 25 Southampton Buildings Chancery Lane, London, W.C.

(*From the Trade Marks Journal, April* 1, 1891.)

Representation of Chinese silver coin, obverse and reverse sides; for chemical substances used for agricultural, veterinary, and sanitary purposes; and also in medicine and pharmacy, and for perfumery. By Carlowitz & Co., Hamburg. 152,287, 152,288, 152,302.

Symbolical representation of angelic figure holding scales, and wording; for medicines. By Thomas Reece, trading as Reece & Co., 53 Great Marylebone Street, W. 151,646.

"J. BEADLE" as signature on scroll; for ointments. By John Beadle, 16 Falcoln Avenue, Darwen. 153,597.

Shield with three hammers, and signature beneath; for salves and ointments. By S. Collett, and O. L. Collett, trading as S. & O. O. Collett, Bampton. 154,195.

"INVIGORATOR" and sketch of man holding large dumb-bell; for medicinal tonic. By G. Crowle and L. Crowle, trading as Messrs. Howard, 17 Chichester Road, Paddington. 154,206.

"MATELOT"; for machines for producing aërated waters. By the North Western Volcanic-Aëration Company (Limited), 16 Philpot Lane, London. 154,278.

"CARBOLIC SMOKE BALL"; and picture of young lady inhaling from the ball; for a curative smoke-ball. By F. A. Roe, 27 Princes Street, Hanover Square. 152,528.

Picture of two cranes and a lily; for mineral and aërated waters. By John Davies, 2 Spring Gardens, Gainsborough. 153,803.

Monogram, signature, and name and address; for mineral and aërated waters. By C. H. Appleyard, Mirfield. 154,229.

Picture of girl before mirror; for perfumery and toilet articles. By H. N. Olver, 3 Oxford Street, London. 150,727.

WHEN THE LATE SIR ASTLEY COOPER was at the height of his success, he was in 1820 called in to remove a steatomatous tumour from George IV's scalp. On the day appointed he waited upon his Majesty. Lord Liverpool and other cabinet officers occupied a room adjoining that in which the King was. In preparing for the operation Cooper was observed to be pale and nervous, when Lord Liverpool, taking hold of his hand, said: "You ought to recollect that this operation either makes or ruins you. Courage, Cooper." This timely rebuke so impressed him that every trace of anxiety vanished, and he performed the operation with his wonted dexterity. This won his baronetcy, with remainder to his nephew, who succeeded to the title.

A GUTTA-PERCHA SUBSTITUTE.—Senhor da Costa, a gentleman well known in Portuguese scientific circles, is reported from Goa to have discovered an excellent and abundant substitute for gutta-percha. It is the solidified fluid which issues from the Nivol-cantem, which grows wild in the Concan district of British India, and is generally planted for hedges. Senhor da Costa states that it is insoluble in water, it softens under heat, and hardens in the cold. It receives, moreover, and retains a given moulded shape, can be cast into very thin sheets, and is capable of taking the minutest impressions on its surface. Though white when it flows from the tree, in its dried state it is of a chocolate colour, closely resembling gutta-percha.

*The following applications for Patents have been registered at the Patent office.*

**Acid (Sulphuric).**—2 343.—February 9, 1891.—T. G. Webb. An improvement in apparatus for concentrating sulphuric acid.

**Aërated-water Apparatus.**—520.—January 10, 1891.—Nathaniel Saint George Wilcocks. Improvements in apparatus for aërating and bottling liquids.——2,445.—February 10, 1891.—N. St. G. Wilcocks.

**Antipyrin** —19,576.—December 1, 1890.—O. Imray. Manufacture of a compound of antipyrine and iodine.

**Apparatus for Concentrating Acids.**—2,499.—February 11, 1891.—W. C. Heraens.

**Beverage.**—3,183.—February 21, 1891.—J. W. Houldsworth.

**Camphor.**—21,294.—December 31, 1890.—W. W. Horn. An improved process for the production of camphor.

**Castor-oil.**—19,070.—November 24, 1890.—O. Imray.

**Caustic Soda** 2134.—February 5, 1891.—J. Greenwood.

**Cellulose and Oxalic Acid.**—1824.—January 31, 1891.—I. Lifschütz. An improvement in the process for the simultaneous production of cellulose and oxalic acid from vegetable fibrous substances.

**Chemicals, &c.**—1,168.—January 22, 1891.—M. N. D'Andria. Improvements in the manufacture of barium chloride and strontium chloride.——1,203.—January 22, 1891.—F. J. Jones. Improvements in the manufacture of sulphate of ammonia.——19,089.—November 25, 1890.—G. E. Davis and A. R. Davis.——1825.—January 31, 1891.—H. H. Lake. Improvements relating to the manufacture of carbonate of soda, carbonate of potash, hydrochloric acid, and chloride of lime, and to apparatus therefor.——3,230.—February 23, 1891.—J. Ascough. Improvements in the manufacture of sodium biborate or borax, sodium crystal carbonate, or soda and other compounds containing sodium or boron or both.——3,657.—February 28, 1891.—J. J. Howitt. Improvements in apparatus for the manufacture of carbonates of soda.

**Chlorine, &c.**—19,776.—December 4, 1890.—J. Simpson ——19,815.—December 4, 1890.—F. M. Lyte and O. J. Steinhart.——21,225.—December 30, 1890.—F. M. Lyte & O. J. Steinhart. Improvements in the production of chlorine and of strong hyorochloric acid.——19,942A.—March 5, 1891.—W. P. Thompson. Improvements in the electrochemical formation of chlorice and chlorine compounds.——4,068.—March 6, 1891.—F. M. Lyte.

**Disinfectant Fire-Lighter.**—3,242.—February 23, 1891.—F. Idle and I. Pearson.

**Disinfectants, &c.**—2,846.—February 17, 1891.—A. McDougall and J. J. Meldrum. Improvements in the disinfection and deodorisation of sewage, and in the apparatus preparing and applying same.——3,408.—February 25, 1891.—F. Wright and F. W. Woolstone. Improvements in disinfecting and deodorising the pans, traps, and drains of water-closets, and the water to be used in connection therewith.

**Ethereal-oils.**—19,074.—November 24, 1890.—J. Y. Johnson. Improvements in the manufacture and production of medicinal compounds from ethereal oils.

**Feeding-bottle Requisites.**—19,765.—December 4, 1890.—E. H. Lewis. An infant's combination feeding-bottle suspender.——20,270.—December 12, 1890.—N. Bergheim. Teat on air-cushion for infant feeding-bottle.——1511.—January 27, 1891.—E. H. Lewis.

**Feeding Bottles.**—1,146.—January 22, 1891.—T. Quinlan. ——3,194.—February 21, 1891.—H. Taylor.

**Filter Funnel.**—19,448.—November 29, 1890. G. H. L Parsons. An improved straining or filtering funnel.

**Filters.**—21,295.—December 31, 1890.—W. W. Horn.——474.—January 10, 1891.—C. A. Koellner. An improved filter for oil and other liquids.——1509, 1521.—January 27, 1891.—H. H. Lake. Improvements in filtering apparatus.——1717.—January 30, 1891.—J. Oxley & G. Sellars. Improvements in pressure filters.——1826.—January 31, 1891. H. L. Doulton.——1976.—February 3, 1891.—C. E. Masterman and Woodhouse & Rawson United (Limited). An improved oil-filter.——2058.—February 4, 1891.—A. J. Boult.——2257.—February 7, 1891.—J. M. Smales. An improved filtering machine——2,768.—February 16, 1891.—W. C. Penn.——3,396.—February 25, 1891.—E. Martin. Improvements in filtering machinery.

**Foods (Peptonised), &c.**—19,178.—November 25, 1890—O. Imray. Improvements in the manufacture of pepsin and peptonised food products.

**Liniment.**—454.—January 9, 1891.—Samuel Brett. A liquid compound applicable as a liniment or as an embrocation.

**Liniment Pad.**—20,547.—December 16, 1890.—W. W. Horn.

**Meat Preparation.**—20,593.—December 17, 1890.—The Denaeyers Peptonoids and Extract of Meat Company (Limited).

**Medical Compounds, &c.** 1949. February 3, 1891.—J. R. Bate. A medical and embalming compound.

**Medicines, &c.**—1651.—January 29, 1891.—W. Oppenheimer. Improvements in administering medicines, and in the preparation of the same for use.

**Mineral-waters.**—2245. February 7, 1891.—H. Hübener. An improved process.

**Mineral-water Apparatus.**—2,766.—February 16, 1891.—M. L. Orr. Measuring syrups and other liquids into mineral-water and other bottles or vessels.

**Nitric Acid.**—891.—January 17, 1891.—O. Imray. Process for obtaining pure nitric acid direct in nitric acid reaction apparatus.

**Ointment.**—20,933.—December 23, 1890.—E. A. Turner.

**Perfumes.**—115.—January 3, 1891.—G. Link and R. Avenarius. Improvements in the manufacture of artificial perfumes.

**Plasters.**—2,413.—February 10, 1891.—R. K. Gregory. Improvements in adhesive plasters.——2,909.—February 17, 1891.—J. H. Osgood. Plaster for medicinal purposes.

**Poison-bottle.**—3,303.—February 24, 1891.—W. Sherry. "The triangular bottle" for preventing the misusage of poisons and fatal drugs.

**Refining Apparatus.**—2241.—February 7, 1891.—W. S. Somers. Improvements in refining oils and spirits, and apparatus therefor.

**Respirators.**—20,296.—December 12, 1890.—M. V. Ferguson.

**Soap (Toilet and Medical).**—963.—January 20, 1891.—P. R. de F. D'Humy. Improvements in the manufacture or treatment of soap for toilet, washing, medical, and other like purposes.

**Sprays.**—3,301.—February 24, 1891.—A. M. Shurtleff. Apparatus for use in diffusing or delivering liquid in the form of atoms or spray.——3,699.—March 2, 1891.—F. G. Moore. A new and improved spraying apparatus.

**Surgical Instruments.**—3,374.—February 24, 1891.—G. E. Gaiffe, fils, and F. Casassa. Sounds or probes, bougies, catheters, canulas, and other similar instruments.

**Syphon.**—1587.—January 28, 1891.—W. H. Davis. Permanent counter syphon for aërated liquids.

**Syphon-stoppers.**—3,315.—February 24, 1891.—P. Delorme, junior. Improvements in stoppers for syphons and bottles for containing aërated liquids.

**Syringes.**—506.—January 10, 1891.—William Henry Munns. ——3,569.—February 27, 1891.—A. Wormull. Jacket hypodermic syringes with an adjustable screw cap that enables

the plunger to be either pressed down to eject th fluid r actuated by a screw.——3,933.—March 5, 1891. — G .Whyt

**Toothbrushes.**—1985. February 3, 1891. —R. Roy. Improvements in toothbrushes.

**Veterinary Medicine**—19,624.—December 2, 1890. —G. Phelan. An improved medicinal compound for veterinary purposes.

*Specifications recently published.*

1889.

13,448. Upward. Disinfectant, &c., sprays. 8*d.*
20,867. Martin & Stuart. Pessaries, &c. 6*d.*

1890.

477. Frischer. Bath brushes. 4*d.*
606. Brock & Minton. Filter presses. 8*d.*
828. Smith. Filters. 6*d.*
853. Jeyes. Insecticide paint, &c. 4*d.*
858. Roth. Ammonium nitrate, &c. 6*d.*
1059. Tribe. Ointment for burns, &c. 4*d.*
1,246. Fitz-Gerald & Falconer. Electrolytic generation of chlorine, &c. 4*d.*
1307. Capillery. Filtering liquids. 1*s.* 1*d.*
1,584. Ellershausen. Soda and potash. 4*d.*
1,589. Kingzett. Disinfectants, insecticides, &c. 4*d.*
1,642. Greenish & Glew. Inhaling and injecting medicinal vapours. 8*d.*
1,882. Stubley. Sifting apparatus. 8*d.*
2,296. Richardson & Holland. Production of caustic soda, &c 8*d.*
2,460. Sedway. Medicinal compound. 4*d.*
2,632. Thompson. Filtering water, &c. 8*d.*
2,633. Leith. Distillation of ammonia chloride. 4*d.*
3,240. Brehier & Talbot. Artificial tartaric acids. 6*d.*
3397. Willcox. Alpha naphthol sulpho acids, &c. 6*d.*
3,520. Arnold. Syringes. 8*d.*
3,874. Williams. Abdominal belt. 6*d.*
,120. Laing. Distillation of mineral oils. 8*d.*
4,137. Piekenbrock. Ozonised oils. 4*d.*
4,434. Meldrnm, J. J. & T. F. Distilling ammonia. 8*d.*
4,519. Precht. Producing potash from potassium, &c 4*d.*
4,759. Precht. Hydrate of magnesia. 8*d.*
5,058. Delplace, E. & J. Making sulphuric acid. 8*d.*
5,113. Stilling. Disinfectants, &c. 6*d.*
5164. Hargreaves. Operating spray-producers. 8*d.*
5,226. Thompson. Lanolin compounds. 4*d.*
5,366. Imray. Guaiacol ether. 4*d.*
5,723. Willcox. Phenacetine derivatives. 6*d.*
5,940. Lake. Extracting and purifying perfumes, &c. 1*s.* 3*d.*
551. Stokes. Determining acidity in milk, &c. 4*d.*
9,622. Pike. Bronchitis-kettle. 6*d.*
12,882. Nussbaum. Spray-producers. 6*d.*
13,170. Wise. Cleaning bottles. 8*d.*
13,803. Jensen. Cod-liver oil. 4*d.*
14,823. White. Perfume-bottles. 6*d.*
15,194. Phillips. Taking pills. 6*d.*
15,199. Tappan. Perfume holder. 6*d.*
16,049. Haddan. Alkaline. 6*d.*
16,216. Davis. Aërated liquor fountains. 6*d.*
16,634. Eyre. Surgical lint, &c. 6*d.*
17,256. Thompson. Insect destroyer. 4*d.*
18,187 Armstrong. Recovering soda, &c., from spent liquors. 8*d.*
19,178. Imray. Ferments, peptones, &c. 4*d.*
19,624. Phelan. Medicinal compound. 4*d.*
19,670. Clark. Sanitary disinfection, &c. 8*d.*
0,946. Bregha & Breza. Preserving articles of food. 6*d.*

## PHOTOGRAPHIC NOTES.

(*Written for* THE CHEMIST AND DRUGGIST.)

### ANOTHER TRIUMPH FOR PHOTOGRAPHY.

Some years ago the displacement of some of the principal lines in the spectra of different stars when photographed proved that certain so-called fixed stars were in a state of motion. Professors Vogel and Scheiner have lately proved that this displacement was subject to periodic variation, and from the variation recorded on photographic plates during a year the velocity of the earth was calculated, and the result arrived at agreed within a few fractions of a kilometre with the velocity arrived at from other sources.

### INTENSIFYING SILVER PRINTS.

At a recent meeting of the Camera Club Mr. Lyonel Clark described his method of intensifying silver prints, which is briefly as follows:—The print when half-printed is removed from the frame and washed, and is then toned, if desired, either with gold or palladium, again well washed, and intensified in a bath composed of:—

| | |
|---|---|
| Acetic acid.. .. .. .. .. | 20 drops |
| Distilled water .. .. .. .. | 2 oz. |
| Solution of nitrate of silver (1-8) .. | 5 or 6 drops |

When intensification has proceeded sufficiently far the print is washed and fixed.

### PRINTING NEWSPAPERS BY PHOTOGRAPHY.

Suggestions have been made from time to time of adapting photography to the production of newspapers, and if contributors could be induced to send in their copy all legibly written, correctly spelt, and duly punctuated, the scheme of thus reproducing manuscript might have some chance of success. Under present conditions, however, the art of reading a newspaper would, if such a course were adopted, need a special education—prescription-reading would not be in it. Messrs. Friese, Greene & Varley have recently invented a photo-printing machine, which prints at the rate of 10,800 copies per hour, after which, of course, the prints have to be developed, fixed, and washed. There is nothing much in this in point of speed. Fontayne, of Cincinnati, made a machine in 1883 which would print 12,000 an hour, and Schlotterhoss, in the same year, made a machine which would print 500 by gaslight and 11,000 by sunlight. The novel feature of the new machine, however, consists in the use of some light sensitive salt, which is not a compound of silver, and is wonderfully cheap, the nature of which is at present a secret.

### A NEW PROCESS OF PHOTO-ETCHING.

M. LEON WARNERKE has successfully applied a discovery, made by M. Merget some fifteen years ago, to the production of photo-engraved plates. Every chemist almost knows that a solution of any soluble salt of platinum, gold, silver, copper, nickel, or cobalt, when applied to a clean zinc plate, gives a dark deposit of metal in the powdery condition. It is also known that hydrochloric and sulphuric acids may be so diluted as to have no action on the zinc; but if the zinc has been painted with one of the metallic solutions indicated above, and is then placed in the weak acid, violent evolution of hydrogen takes place, the powdery metallic deposit sinks deeper and deeper, and the plate is etched to any depth desired without the side walls being attacked. This last feature, the side walls not being attacked, or underbitten, is an important fact likely to be of great value. M. Warnerke says that he has found ammonio-tartrate of nickel to give the best results. Anxious to try this, we tried to obtain some of the said salt, but a wholesale house stated that it could not be obtained in London. The best method of making the salt is by precipitating the hydrated oxide ($NiHO$) from the sulphate by caustic soda, collecting the precipitate, washing it, and practically following the old B.P. directions for making ferri ammon. tart.

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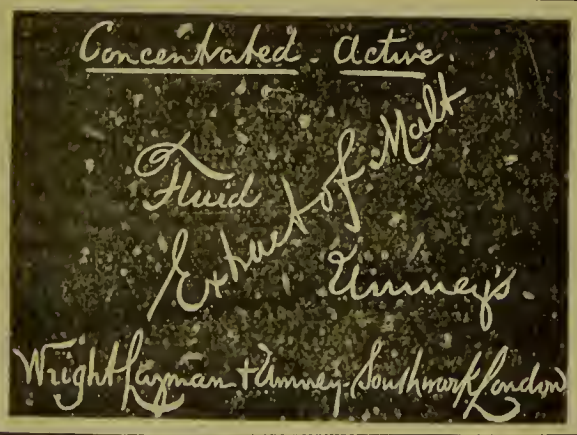


PATENTS AND TRADE MARKS.
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# EDITORIAL NOTES.

## THE PHARMACEUTICAL COUNCIL.

THE April meeting of the Pharmaceutical Council is seldom an important one, and that held on Wednesday was not an exception. There were no topics of interest to the trade generally, except we raise the nominations for the May election to that elevation. The spirited contest of last year

A Copy of this Supplement is inserted in every number issued of "The Chemist & Druggist."

# The Chemist and Druggist

## SUPPLEMENT

Businesses Wanted.
Businesses for Disposal.
Premises to Let.
Auction Sales.

SATURDAY, APRIL 4, 1891.

Partnerships.
Situations Vacant.
Situations Wanted.
Miscellaneous.

This Supplement will be given free to any Chemist and Druggist or Assistant who will call for it at 42 Cannon Street on Friday afternoon, or will be posted on Fridays to any one who sends an addressed postal wrapper.

OFFICES: 42 CANNON ST., LONDON, E.C.

## IMPORTANT.

*"THE CHEMIST AND DRUGGIST" SUPPLEMENT, to be published on Saturday next, April 11th, will have a bona-fide Circulation of not less than* **12,600 COPIES.** *Chemists desirous of purchasing or disposing of a Business, or in want of Assistants, or Assistants requiring Situations, should take advantage of this opportunity, as the circulation of this medium is the largest of any in the Drug Trade. Copy of Advertisement, with remittance, should be sent by Thursday, April 9th, but we can take advertisements by First Post on Friday morning.*

## CHEMISTS' TRANSFERS.

## MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

### CHEMISTS' TRANSFER AGENTS,

**May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.**

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—LONDON, N.W.—Established Business, situate in a main thoroughfare; returns over £900 largely cash; well-fitted shop and good stock; convenient house, held on lease; price £750.

2.—LONDON SUBURB.—Old-established Business, situate in a very pretty locality, returns £1,000 yearly, *with very good profit*; well-fitted, large, convenient shop; good house and garden, held on beneficial lease; particulars on application.

3.—LONDON, S.E.—Old established Business, situate in a very busy locality; returns £500 yearly; Post Office attached; house held on lease at low rental; double-fronted shop; convenient house; price £475.

4. LONDON, W.—Retail and Prescribing Business, situate in a busy middle-class locality; returns over £500 yearly; well-fitted shop and good stock; good-sized house; rent low; price about £450.

5.—LONDON, E.—Retail and Dispensing Business; established nearly 20 years; returns £950, yearly increasing; *net profit 33 per cent*; good 8-roomed house and attractive shop, on long lease; price about £900.

6.—LONDON, N.—Dispensing and Retail; established 50 years; returns between £600 and £900 yearly; *net profit very much above average*, from Proprietaries, good stock, handsome shop, and good house, held on beneficial lease; price, including lease, £1,100.

7.—KENT.—Dispensing and Retail Business, with good Proprietaries; returns over £800 yearly; single-fronted shop and good 8-roomed house, with small garden; price £650.

8.—SURREY.—Dispensing and Retail, with Post Office attached; returns between £750 and £800 yearly; *profits fully up to average*; well-fitted single-fronted shop and good house, with private entrance, garden, &c.; rent £60, on lease; price about £650, or valuation can be arranged if wished.

9.—EASTERN COUNTY.—Easy distance of town; an Agricultural Business, well-situated in a central position; returns £1,650 yearly; *profits fully up to the average*; valuation of stock and fixtures; full particulars on application.

10.—LEICESTERSHIRE.—First-class County Business, established many years; returns £800 yearly, *good profit*; handsome shop, large and convenient warehouse and garden; price £700.

11.—MIDLANDS.—Mixed Business, situate in a good busy manufacturing district, returns about £1,800 yearly; capital opportunity for a good business man; price about £850.

12.—BRIGHTON.—Good-class Retail and Dispensing; returns £700 yearly; well-fitted shop and good stock; good 6-roomed house and shop, on lease; price about £180.

13.—NOTTINGHAM.—Light Retail and Prescribing Business, established many years; returns between £425 and £450 yearly; corner shop; very moderate rent; price about £200.

14.—CORNWALL.—Dispensing and Retail Business, situate in a small town, pleasantly situated; returns over £300 yearly, easily extended; no opposition; good-sized house, with garden; rent £20; price £250.

**Particulars of any of the above will be furnished on application.**

**N.B.—NO CHARGE TO PURCHASERS.**

Other Businesses, Town and Country; particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London agent.

SPECIAL NOTICE.—TO PRINCIPALS AND ASSISTANTS.

MESSRS. ORRIDGE & Co. Register Vacancies for Situations FREE OF CHARGE.

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MIDLAND COUNTY.—First-class Retail, Dispensing, and Prescribing Business; returning about £1,500; net profit £600; same hands 50 years; retiring; good house, low rent; price about £1,300.

CORNWALL.—Retail and Dispensing Business, with general Mixed business attached; returns £3,600; steadily increasing; large house, low rent; price about £1,500; satisfactory reasons for selling.

WEST OF ENGLAND.—Retail, Dispensing, and Agricultural trade; returns £1,200, at good profit; 10 roomed house, large garden; same hands many years; price £800 or valuation.

LANCASHIRE.—Good-class Retail, Dispensing, and Prescribing Business; returning £1,300, with good profits; rent £35; good house; price £800, about the value of stock and fixtures.

KENT.—Important market town; Retail, Dispensing, and Prescribing Business; returns £850, making a net profit of nearly £400 a year; low rent; good house; price £600.

SURREY.—Good-class Retail, Dispensing, and Prescribing Business; returning £750 under manager; net profit £300; excellent position; good house; price £520; can be increased by principal.

NOTTINGHAM (Near).—Retail, Dispensing, and Prescribing Business; returning £700 under manager, capable of increase under principal; rent £35; price £300, or valuation.

SUFFOLK.—Retail and Prescribing Business; unopposed for 4 miles; returns £550, at full prices for everything; low rent; good house and garden, stable, &c.; price £250.

LONDON, N.W.—Death vacancy; first-class Retail and Dispensing Business, producing £400 yearly net profit after paying all expenses; same hands many years; price £900.

LONDON, W.—Retail and Prescribing Business; returning £550 under management; net profit £250; price £425; £150 can remain.

LONDON, S.W.—Retail and Dispensing Business; returns £400 under junior; P.O. pays rent; good house; price £250.

Particulars of any of the above sent free on application.

*Other Businesses, Town and Country, from £100 to £5,000.*

**Messrs. Berdoe & Co., 30 Jewry St., Aldgate, London, E.C.**

# Messrs. CROCKER & CO.

## Trade Valuers, Transfer Agents, and Accountants,

## 15 WALBROOK, E.C.

LANCASHIRE.—Death vacancy.—Retail, Prescribing, and Dispensing; returns £500; valuation of stock and fixtures will be accepted.

NORFOLK.—Old-established Retail, Prescribing, and Dispensing trade; returns £600; price £450; large and convenient house and good garden.

SHEFFIELD.—Branch Retail; returns £350; low rent; price £120; suitable for parking young man desirous of making a start.

SOUTH COAST.—Retail, Prescribing, and Dispensing; returns £350; price £150; long lease at a low rent; great scope for improvement.

HAMPSHIRE.—Returns £450; price £400; handsome Pharmacy; well situate in fashionable health resort.

BUCKS.—An old-established Light Retail and Dispensing trade; situate in the best part of a busy town; returns £400; price £200; rent £30; good house and garden; satisfactory reasons for selling.

MIDLANDS.—Retail and Prescribing trade, in suburbs of manufacturing town; returns £400; price £175; worth attention.

NORTH OF ENGLAND.—Good-class Dispensing trade, in select residential locality; returns £1,400; very profitable; price £1,200; full particulars upon receipt of references; this is recommended as a most reliable investment.

LANCASHIRE.—Good class General Country trade; returns £1,300; price £ ,000, very low rent, handsome Pharmacy; double-fronted.

KENT.—Death Vacancy.—Retail and Dispensing; returns £350; rent £25; price £200; single-fronted shop, well stocked and nicely fitted.

WEST OF ENGLAND.—Fashionable Health Resort.—Old-established Retail and Dispensing; returns £1,200, price £1,200; good house, &c.

LONDON, S.—Good class Retail and Dispensing trade; returns £500, low rent; price £350; capital position in marketing thoroughfare.

LONDON, N.—Old-established Retail, Prescribing, and Dispensing; many years in same hands; returns £570; price £500.

LONDON, S.E.—Retail and Prescribing trade; unopposed position; returns £500, price £400; rent £40; good house, &c.

LONDON, S.E.—Suburb.—Retail and Dispensing; handsomely-fitted, double-fronted shop; returns £1,400; rent £50; price £1,100; or a Partnership would be entertained, with a view to present owner retiring.

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And at Heywood, 2 at Bradford, 1 in the Potteries, and several others.

For a douceur of £25 they have also the privilege of splendid premises, the best in England, at moderate rental, in every way adapted for the present advanced state of the Drug Trade. One or two persons accustomed to the Store Trade, with £1,000 or £1,200, would make a fortune in 10 years.

# BUSINESSES FOR DISPOSAL.

*3s. 6d. for fifty words; 6d. for every 10 words beyond.*

DISPENSING and Retail.—Two Businesses; main road, N.; returns £850 and £300; price £900 the two, or could be sold separately; open to offer and inspection. Mr. T. Martin, 33 Camden Square, N.W.

DEATH VACANCY.—For disposal, owing to death of proprietor, old-established Prescribing and Retail Business in a thriving village near Manchester; stock and fixtures at valuation. J. Knight, 2 John Dalton Street, Manchester.

FIRST-CLASS Dispensing and Light Retail Business in West of England; doing a genuine and yearly increasing business at good prices; handsome shop; good house; returns £900, half profit; every investigation allowed; sole reason for disposal, ill-health. Address, "Dispensing," Messrs. Meggeson & Co., 14 Miles Lane, Upper Thames Street, E.C.

# BUSINESSES FOR DISPOSAL—Continued.

A GENUINE Retail and Prescribing Business in a growing neighbourhood, with immense scope for increase; handsome-fitted shop and comfortable house at very moderate rent; returning between £700 and £800; vendor retiring. For full particulars apply, "Rhei," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, E.C.

FOR Disposal, old-established Drug and Grocery Business, established 1868, situate in principal street in Darlington, with large double-fronted shop, well fitted, and commodious house, &c.; the above premises were built and fitted specially for the above business; thus there is every convenience for the trade; exceptional opportunity; not another Chemist in the same street; no agents. For particulars apply to Mr. Thompson, 12 Blackwellgate, Darlington.

## TO LET.

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TO Chemists or Dispensary.—Bold corner; splendid position; immense traffic; fitted show-case; rent £55. Davies & Thomas, 217 Pentonville Road, N.

NOTTING HILL.—Old established Dispensary to let with all medical instruments and some furniture. "Owner," 100 Devonport Road, Shepherd's Bush.

TO Chemists and Druggists.—Shop to Let, in leading thoroughfare, with fixtures and part stock; business of several years' standing; can be entered upon at once by arrangement. Apply, M. Wilkin, 248 Freeman Street, Grimsby.

MEDICAL.—Two places for Sale; lowest price £550 each; would suit Surgeon, Chemist, or Botanic Druggist. 1st, a 6-roomed house, with plate-glass front, surgery fittings, garden and out-offices; used 9 years as a "Provident Dispensary." 2nd, to end of lease, rent 50*l.*; in hands of present Surgeon, 35 years; over this is "The Hall of Science and Anatomy," from which alone a fortune may be made by fresh energy. Apply Dr. S., 28 Queen's Road, Brighton.

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AERATED WATERS, Soluble Essences, &c.—A Practical Chemist, and Manager to large Mineral-water Company, is open to negotiate with a Chemist and Druggist, with good sale for Aerated Waters, with a view to Partnership in starting manufactory for same; large experience and good formulæ. "Limonis," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

VALUABLE OPENING.—Active Partner, qualified, prepared to invest for extension at least £200 in a successful Retail and Wholesale Business in Manchester; two new and valuable medicinal specialitie, of much value, largely sold; only *bonâ fide* applications, stating references, will be entertained. Apply to the International Drug Company (Limited), 159 Stretford Road, Manchester.

## APPRENTICESHIPS.

APPRENTICE.—A situation is required for a well-educated Youth (15); passed Cambridge local exam.; a small premium will be paid for a comfortable home in a Christian family. James Prince, Builder, Conaah's Quay, Flint.

APPRENTICE or Turnover.—Wanted, to place youth, aged 19, with some months' experience of the business, with a Chemist in London or suburbs, where he would have good opportunity of thoroughly learning Dispensing and the trade generally; indoors; small premium given. Particulars to Miss Rolfe, 37 Berners Street, London, W.

## SITUATIONS OPEN.

*3s. 6d. for fifty words; 6d. for every 10 words beyond.*

IMMEDIATELY, for good Dispensing business, qualified Assistant; permanency. Parkes, 193 Belsize Road, Kilburn.

ASSISTANT, qualified (indoors), wanted for Mixed business. Apply, with references, Coleman, Chemist, Wolverhampton.

A YOUNG man wanted as an indoor Assistant in an old established open surgery. H. H., 64 Great Portland Street, London, W.

WANTED, Dispenser; required to keep the books; salary £1 per week outdoors. Messrs. Tomson & Son, Surgeons, Luton.

JUNIOR Assistant; easy hours; must have good references; state age, height, and salary required. Apply, Fisher, Pharmaceutical Chemist, Newark.

ASSISTANT wanted immediately; one possessing the Minor qualification preferred. For particulars, apply to C. W. H. Llewellyn, Hitchin.

WANTED, a competent Assistant, about 23. Apply, personally, to Mr. J. B. Barnes, Pharmaceutical Chemist, 1 Trevor Terrace, Knightsbridge.

MANAGER for a first class Retail and Dispensing establishment in Dublin. Apply to A. B. C., care of Barron, Harveys & Co., Gilt-pur Street, London.

WANTED, immediately, qualified Dispenser. Apply, with references, salary (indoors), experience, &c., to Price, Chemist, Bath Street, Leamington.

JUNIOR Assistant (indoors), accustomed to good-cl[illegible] age, height, salary required, and give references [illegible] Victoria Road, Aldershot.

WANTED immediately, for a town in manufa[illegible] qualified Man to take charge of Retail Chemist's [illegible] Hall, Son & Pratt, Solicitors, Bilston.

AN Assistant (indoors), accustomed to a good-class bu[illegible] years; Minor qualification. References and usual par[illegible] James Newlyn, Wellswood Place, Torquay.

CLARE & HUNT, Scarborough, require a qualified Assist[illegible] 23 years of age, accustomed to best-class Retail and D[illegible] Applicants, please state usual particulars and enclose photograph.

WANTED, a Traveller calling upon Chemists, to take up the s[illegible] n Speciality of every-day consumption, and well worth atte[illegible] 15*l.*-0, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, energetic Manager, qualified, to live indoors, single, [illegible] 30, for Mixed Retail and Prescribing; must be able to Extract T[illegible] Apply, with full particulars, to Gould, Chemist, Harborne, Birminghai[illegible]

A COMPETENT Assistant (indoors), about 24; must be well up [illegible] Dispensing and accustomed to a good-class business. Apply, stati[illegible] age, height, salary, and references, to J. Munday, Chemist, 1 High Stree[illegible] Cardiff.

JUNIOR Assistant or Improver wanted (two kept) in a Dispensin[illegible] good class Retail. State experience, age, reference, and salar[illegible] required, to J. W. Feltwell, Chemist, 91 Hammersmith Road, West Ken[illegible] sington, W.

WANTED, an indoor Assistant, accustomed to good-class trade. State age, height, salary required, when disengaged, how long in last situation, also enclose carte (which will be returned), Morgan, Chemist, Southend-on-Sea.

WANTED, the beginning of May, in a country business, a Junior Assistant. Apply, stating age, salary, and experience, to Horace Ridley, Chemist, Princes Risborough, Bucks. Also a well-educated Youth as an Apprentice required.

BRITISH GUIANA.—Junior Assistant required; 3 years' engagement at progressive salary; an Associate of the Pharmaceutical Society preferred. Apply, by letter, to C. S., care of Hodgkinson, Treacher, & Clarke, 101 Whitecross Street, E.C.

J. DAY, Chemist, Savile Town, Dewsbury, requires a good Assistant (indoors), with a fair knowledge of Dispensing and Mixed-class trade; good character required. Apply, stating references, height, and salary, with photo (if convenient), which will be returned.

JERSEY.—Channel Islands.—F. G. de Faye, Chemist, 21 David Place is in want of a good Junior, accustomed to high-class Dispensing and Retail, and able to take charge during absence; send age, height, salary required (indoors), and references; also photo (to be returned).

WANTED, experienced Assistant in good-class Dispensing and Retail, within an hour's run of London; one with knowledge of Dentistry preferred, but not essential; comfortable Christian home "Surrey," Messrs. Hearen, 28 Southwark Street, London, S.E.

IMPROVER or Junior.—Wanted, at once (outdoors), in a good-class Family trade, with wines and spirits attached; hours 8 A.M. to 7 P.M. Wednesdays 4 P.M., Saturdays 10.30 P.M.; no Sunday duty. Apply, with usual particulars, McConnal, 5 Newgate Street, Bishop Auckland.

WANTED, towards the end of April, an outdoor Assistant, unmarried, for a busy Country Retail; applicants must be neat, quick, and energetic. Full particulars, with references and carte (to be returned), to Grimble & Kent, Wholesale and Retail Chemists, Boston.

WANTED, at once, qualified Assistant; one accustomed to quick business; abstainer preferred; a permanency to a steady but active man; must be able to take sole charge of Dispensing, sale of poisons, &c.; preference given to a young man. Ince, Dudley, Worcs.

WANTED, for the Isle of Man, an energetic Assistant, with a good all-round experience, to manage a brisk business; age not under 30; single; total abstainer. Apply, with references and full particulars as to salary, &c., and enclose photo, to "Magnesia," care of Messrs. Evans, Sons & Co., Liverpool.

QUALIFIED Assistant, not under 30, Christian Nonconformist; used to best class Dispensing business, and travel occasionally; seeking permanency; man of quiet energy; South of England. Address, preliminary particulars to "Senex," c/o Edwards & Son, 157 Queen Victoria Street, London.

SENIOR Assistant required for good-class business; capable of taking charge in absence of principal; please state details of experience, age, height, salary required (indoors); send carte de visite; one with a knowledge of Agricultural trade preferred; a Junior also required. R. Hawkes, Stratford-on-Avon.

WHOLESALE and Retail Druggist.—An active, intelligent young man required, as salesman at the Retail counter; he must thoroughly understand his trade, and be able to make up orders for the wholesale. Please state age and salary, with two references to recent employers, to K. M., 54 Villiers Terrace, Leeds.

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## TUATIONS OPEN—Continued.

ANT, about 23, accustomed to Dispensing. Apply, B. John, 1 Bond Street, Bath.

R, of good address. State age, height, experience, and salary red, enclosing carte (to be returned), to Wibmer & Wardley, Tonbridge.

NTED, a good Junior, aged about 22 years; must be a quick and accurate Dispenser. State salary and usual particulars to R. ley, 20 George Street, Hastings.

OD Junior; must be quick and accurate Dispenser; a Senior and Junior also kept. State age, height, salary required, and enclose , to Jno. Rae, Chemist, Newmarket.

NIOR; qualified; accustomed to first-class business; indoors; neat Dispenser and good Salesman, also to travel occasionally; good y to suitable person. Fripp & Co., Chester.

N All-round Minor man wanted for the West-end; must have ex- ceptional references as to character and ability; salary £50. Apply, letter, to "Zero," Messrs. Sanger & Sons, 489 Oxford Street, W.

WANTED, Junior or Improver in Light Dispensing business; one with knowledge of Homœopathy preferred, but not essential. pply, with usual particulars, to J. Tirrell, Market Square, Hanley.

WANTED, immediately, an Assistant with experience in Wholesale trade as second Counterman; Wet department. Address, with references and salary required, T. F. D., 52 St. Ann Street, Liverpool.

WANTED, energetic Assistant for Retail and Dispensing department; sleep on premises, board out; enclose carte de visite and give full particulars; state salary expected. Kilob & Co., Ltd., Cork.

JUNIOR Assistant, about 21, of gentlemanly appearance and address, for first-class Dispensing business. State previous experience, references, salary required, and enclose photo, to W. W. Broom, 2 Queen Street, Exeter.

TEMPORARY Assistant (indoors) for two months from April 23; good references indispensable; abstainer preferred; time for study required. Send carte, with full particulars, to Oldham & Son, Chemists, Wisbech.

WANTED active Junior, about 21, for a Light Retail and Dispensing business; abstainer preferred; time for study; no Sunday duty. Address, with full particulars and photo (if convenient), J. A. Jessop, Acocks Green.

ASSISTANT (indoors, but to sleep out), age about 23, required about April 20th. Apply, with full particulars as to age, height, salary, and experience, and enclose carte, to H. C. Thorne, 65 Western Road, Hove, Brighton.

OUTDOOR Assistant; must be a reliable Dispenser and accustomed to a good-class business; no Sunday duty. Apply, stating age, height, references, salary required, and enclose carte, to W. T. Hicks, 25 The Parade, Cardiff.

WANTED, a Junior Assistant (outdoors) well up in his business; none need apply who cannot be well recommended. Apply, stating age, height, and full particulars, with salary required, to John Cross & Co., Pioneer Drug Stores, Reading.

WANTED, active, trustworthy Assistant (outdoors) for Branch (Midlands); references indispensable. Apply, stating age, height, ary required, enclose photo, to "Salol," c/o Messrs. Hedgainson, Pres- s, & King, 81 Bishopsgate Street Without, London, E.C.

A COMPETENT Assistant to manage a Branch, or with a view to purchase; a married man without encumbrance preferred. State age, height, references (which must bear the strictest investigation), salary, and enclose carte (to be returned), Griffith, Chemist, Canterbury.

WANTED, at once, an active, trustworthy Assistant, 21 or 22; indoors; a comfortable home; good references indispensable; an abstainer preferred. Apply, with full particulars as to age, experience, and salary required, enclosing photo, to J. Spencer Scholes, Chemist, Derby.

JUNIOR or part-time Assistant (indoors); age about 20; for first-class Retail and Dispensing business in London suburb; qualified assistant kept; abstainer and member of Christian Church preferred Please state age, height, experience, salary required, and enclose photo, to P.B.C., care of Hearn & Co., 38 Southwark Street, S.E.

AT once, a qualified Assistant, about 23, for first-class Retail and Dispensing; South-east coast; must be a quick and reliable Dispenser, f gentlemanly address, and an energetic Counterman; comfortable home, time for recreation; applications not answered in 3 days declined. Julian Horrell, M.P.S., Pharmaceutical Chemist, Broadstairs.

WANTED, a trustworthy Junior Assistant; Minor qualification; well up in making preparations and keeping stock; smart at counter; occasional duty at branch; indoors; preference given to one able to travel and knowledge of Surgeons' Wholesale; progressive permanency to suitable applicant. Gregory & Wrenn, Taunton.

QUALIFIED Junior, for Light Retail and Dispensing; chance of [illegible] mechanical Dentistry; reference must bear [illegible] from 2 and one evening from 7 per week on; applicants must take an interest in shop and proprietaries. Usual particulars and photo to "Chemist and Dentist," 70 Oxton Road, Birkenhead.

B[illegible] Middle-April, two good men for first-class Stores and Dispensing business; gentlemen who have had experience in good pushing cash trade preferred; outdoors. No Sunday trade; only first-class men with unimpeachable references need apply, giving full particulars and salary required, to Mogor, Corporation Street, Birmingham.

LABORATORY.—Old-established firm of London Druggists have a vacancy for a young Chemist who has had a good scientific education, followed by a few years' experience of the manufacture of extracts, small chemicals, and other P.B. preparations, as well as of the purification of heavy chemicals, &c.; liberal terms to a suitable applicant. Address, stating age, experience, and salary required, H., Lynwood Villa, Beaconsfield Road, New Southgate.

## SITUATIONS WANTED.

*1s. for twelve words; 6d. for every six words beyond.*

JUNIOR (21); London preferred. W., Acacia House, Lindley, Huddersfield.

ASSISTANT (23); good experience; time for study. Parkinson, 4 Petty Cury, Cambridge.

JUNIOR (20½); height 5 ft. 7 in.; good references. Address R. 21 New Street, Barnsley.

AS Traveller (Yorkshire district); Drugs, Sundries, Varnishes, Colours Specialities, &c. Burkitt, Ossett.

JUNIOR; aged 21; North preferred; 6 years' experience. Apply Wade, Seaham, Sunderland.

AS Dispenser and Bookkeeper to a Doctor; aged 34; married; perma- nency desired. Field, Potton, Beds.

LOCUM-TENENS; aged 24; disengaged; qualified. "Extractor, 60 Seymour Street, St. John's, S.E.

LOCUM-TENENS; qualified; disengaged Thursday next "Æsculap Botany Lodge, Laurel Grove, Penge.

LOCUM-TENENS, Manager, or Dispenser; qualified; disengage "Extractor," 92 Howson Road, Brockley.

LOCUM-TENENS or Manager; qualified; aged 37; abstaine L. J. E., 3 Woburn Place, Russell Square, W.C.

WHOLESALE or Export; Drugs, Patents, or Sundries (aged 2 J. Henderson, Polytechnic, Regent Street, W.

PART-TIME, or easy hours; London; outdoors; aged 23; go references. C. U., 1 Nelson Terrace, Southend.

ASSISTANT; good references; outdoors; aged 30. Addre "Chemicus," 89 Phillip Street, Aston, Birmingham.

JUNIOR or Improver; 4 years' experience; aged 19; height 5 ft. 7 i passed Prelim. Rook, 159 Manchester Street, Oldham.

YOUTH would give time to Chemist as Improver; 1 year's experienc good reference. G. W. T., 89 Algernon Road, Lewisham.

IMPROVER in a good Dispensing business; time for study; 4½ ye experience; abstainer. "Statim," 60 Queen Street, Ramsgate.

QUALIFIED Assistant desires situation, city; good refereac 6 years first class Pharmacy. Y., care of Seath, Chemist, Dunfermli

MANAGER for Branch, or Temporary; qualified; highest re euces; many years' experience. R., 41 Rigault Road, Fulham, S

TO Manage a Branch; can Extract Teeth, &c.; qualified; marri good Prescriber; aged 40. "Chemicus," 14 Gerrard Street, Ast Birmingham.

ASSISTANT or Dispenser: 7 years' experience; time for stu London, Liverpool, or Manchester preferred. Lloyd, Turn College, Manchester.

EVENING Employment by student at Woodlands; good experi and references; disengaged April 21. Franks, care of Rog Chemist, Southsea.

SOLUBLE ESSENCES, &c., for Mineral-water Makers, Brew Confectioners, Biscuit Manufacturers, &c.; Advertiser, havi thorough practical knowledge of the manufacture of same (quality equalled), is desirous of treating with firms at present or abou manufacture above. Full requirements to "Nulli Secundus," Offic THE CHEMIST AND DRUGGIST 42 Cannon Street, E.C.

# BUSINESSES FOR DISPOSAL—Continued.

MID-SUSSEX.—For immediate sale, through family matters, Retail, Dispensing, and Agricultural Business; in present hands quarter-century; returns £700; rent £40; large house, garden, lawn, fruit-trees; price, to effect a speedy cash sale, only £500. H. J. H., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR immediate disposal, Chemist's Business; neat fit-up shop, mostly mahogany; energetic young man commencing this a most suitable opportunity; good house, including bath, garden, and outbuilding; rent £19; none other within a mile; price £230; no agents; part furniture if required. Address H., Hirst, Brooke & Hirst, Leeds.

£250.—LIGHT Retail and Dispensing; no heavy trade; situated in market place of small town; one other Chemist to unopposed district of 8,000; established over 60 years; been neglected and latterly under manager; present returns £300, could easily be trebled; good house, lease if desired. Elliott, Chemist, Bedford.

PRESCRIBING and Light Retail, in busy Birmingham suburb; returns nearly £450, fully half profit, good prices, no patents; excellent house; rare opening for a pushing man, as vendor away half the day; with whole attention would immensely improve; vendor entering medical profession; price £300. "Medicus," Wyleys, Coventry.

YORKSHIRE, in busy Manufacturing Town.—An old-established Drug Business; has done over £30 per week, but owing to indifferent management takings are reduced; might soon be improved by principal; present proprietor not being able to devote any attention to it; about £275 required. "Chemist," Messrs. Evans, Sons & Co., Liverpool.

HOME County.—An old-established good class Family and Dispensing Business for Sale within easy distance of London; returns £800, very profitable; price £650; very handsome Pharmacy and good residence, held on long lease at low rent. For particulars apply, in first instance, W. T., care of Mr. Kidman, 529 Kingsland Road, London, N.

£200 FROM an immediate purchaser will be accepted for a general good-class Retail and Dispensing Business in a fast increasing market town 25 miles from London; returning £400; good house, with garden; rent £30; simply the value of stock on the premises; through illness. "Chemicus," 46 St. James' Grove, Peckham Rye, London.

BUSY main road, densely-populated neighbourhood, S.E.—Long lease; well-fitted shop and 9 rooms; taking under management £255, easily increased; rent £60, let off £40, more could be let; price for goodwill, lease, fittings, and about £175 well-selected stock, £200, or good offer. "Invigorine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

RARE opportunity for Registered Chemist.—For Sale by Tender, Drug Store Business, situated in principal thoroughfare of cathedral city; good opening for recently qualified Chemist. For particulars and leave to view apply to Mr. Wm. Wetherill, St. Wilfrid's Terrace, Ripon; or Messrs. Edmundson & Gowland, Solicitors, Ripon and Masham.

NORTH OF SCOTLAND.—Chemist and Druggist Retail and Dispensing Business for disposal; old established; present hands 7 years; vendor going abroad; good house and garden; stock and fittings at valuation; Medical Man would find this an excellent opportunity. Apply, "Minor," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£325.—HAMPSHIRE.—Must be sold at once, having purchased larger concern. Light Retail and Dispensing Business, returning over £340 at full prices; no opposition; good house and garden; to an immediate purchaser only £325, or valuation; part can remain. "Hants," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£1,100.—HOME COUNTY.—Good-class Retail, Dispensing, and Prescribing Business, in an excellent market town; returns about £1,500, with a net profit of £400 yearly; same hands 20 years (retiring); excellent house, large garden, greenhouse, &c; price £1,100, or by valuation. "Pyridin," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMIST'S and Aerated Water Business for immediate disposal, owing to the death of late Proprietor; established 1834; shop well fitted, and doing a good Prescribing and Proprietary trade; situate in principal street of a rapidly growing town in the Staffordshire Potteries; also Branch Establishment in a rising suburb. For further particulars apply to H. T., 4 Ashwood Terrace, Longton, Staffs.

SPECIAL Opening for Chemist and Druggist in Forfar.—There is for sale the old-established Business of Chemist and Druggist carried on originally in name of the late Mr. James A. Ranken, and latterly in name of J. A. Ranken & Son, at No. 19 East High Street, Forfar. The stock, which is fresh and of moderate amount, and fittings will be given over at valuation, and the premises, which were specially built and fitted up for the business, will be let on lease for 5 or 10 years, as may be agreed on, at a rent of £45 per annum.

Terms cash. An approved bill for a part may be accepted.

Offers for the Goodwill, so marked on outside, will be received by William Gordon, Solicitor, Forfar, on or before 11th April next, and he will give orders to see the stock, and all particulars. The highest or any offer may not be accepted.

The business is being disposed of in consequence of the present state of health of Mr. John Ranken, the sole partner.

Forfar, 23rd March, 1891.

FOR immediate disposal, an old-established Business on the Kent coast; Light Retail and Prescribing; rising town; price £350. Full particulars from Griffith, Medical Hall, Canterbury.

OLD-ESTABLISHED Drug Trade, Retail, and Prescribing; good town, South Staffordshire; commanding shop; good house; no goodwill. 156/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

ADVERTISER having two businesses will sell either; one in suburbs going last year £463; another in one of busiest thoroughfares in London; both well stocked; price £280; fullest investigation courted. Apply, 193 Borough High Street, S.E.

CHEMIST'S Business, with Post Office attached; Dispensing, Prescribing, and Light Retail; to be sold a bargain for immediate cash; South Coast. For price and particulars address "Statim," care of Postmaster, Mount Pleasant Road, Hastings.

FOR immediate disposal, through illness, genuine old-established country Mixed Trade; market town; price about £1,300; furniture or part if desired. For full particulars, apply "Druggist," care of Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London.

FOR disposal, old established Drug and Grocery Business, established 1868, situate in principal street in Darlington, with large double-fronted shop, well-fitted and commodious house, &c. The above premises were built and fitted specially for the above business, thus there is every convenience for the trade; exceptional opportunity; not another chemist in the same street; no agents. For particulars apply to Mr. Thompson, 12 Blackwellgate, Darlington.

STOCK, Fixtures, Goodwill, &c, of nicely fitted double-fronted Pharmacy; good house, yard, side entrance; receipts by assistant, £5 to £6 weekly; mostly Prescribing; very profitable; books open for inspection; healthy locality, close to sea docks; four miles from Cardiff; principal, having taken a larger concern, will sacrifice for £80; this is *bonâ fide* and an opportunity seldom, if ever, met with; honestly worth double. 10 Caroline Street, Cardiff.

TO be disposed of immediately, a fine Pharmacy, situated in one of the great Seaport and Commercial centres of the East; will be sold at a sacrifice, as proprietor is desirous of devoting himself to another business; the value of installation and stock of drugs and specialities was at last inventory £2,000, and the annual turnover has been an equal amount; a cash payment of £500 would be required, and terms could be arranged regarding payment of remainder of purchase money. For further information, apply to "Orient," care of S. R. Van Duzer & Son, 114 & 116 Southampton Row, W.C.

# BUSINESSES WANTED.

*3s. 6d. for fifty words; 6d. for every 10 words beyond.*

WANTED, to purchase a small Chemist's Business, doing about £5 or £6 weekly, for cash, or one larger by instalments; in London or suburbs. Please mention lowest terms to Dr. Price, Markhouse Road, Walthamstow.

WANTED, a genuine Retail, Dispensing, and Prescribing Business in London; main road preferred, with plenty of scope for increase; cash about £600. Send full particulars, in confidence, to L. Hughes, 56 Arbour Square, Stepney.

WANTED, sound profitable Retail and Dispensing Business, in country or provincial town; must bear strictest investigation; capital at command £500 to £700; or active Partnership with view to succession entertained. Principals only, please address, J. H. B., 246 High Street, Exeter.

IN good neighbourhood, within about 60 miles of London, good Retail and Dispensing Business, returning between £1,100 and £1,500; Partnership in large concern entertained, with view to ultimate succession; must bear strictest investigation. Full particulars to O. P., 36 High Street, Guildford.

# FOR SALE.

*3s. 6d. for fifty words; 6d. for every 10 words beyond.*

ABOUT 80 gallons White Newfoundland Cod Liver Oil; price 2s. 6d. per gallon, in Leeds; samples on application. Benjamin R. Vickers & Sons, Oil Importers, Leeds.

FOR SALE.—Second-hand carboys with cut stoppers, 2, 3, 4, 6, & 8 gallon, 8s., 10s., 12s., 15s., and 22s. each; one 12-ft. range new mahogany drawers, with glass labels and knobs, 9l.; one 9-ft. second-hand counter, panelled front, 40s.; one 6-ft. ditto, 20s.; one 8-ft. ditto, mahogany top, 50s.; one 6-ft. mirror centre dispensing-screen 6l. 10s.; one ditto, new, 6l.; one mahogany bent-glass toothbrush case, 25s.; one 4 ft. 6-in. mahogany wall-case, second-hand, 6l.; 180 gold-labelled rounds and jars, 8l. 5s.; 24 3 lb. blue jars, labelled, 2s. each. B. Tomlinson & Sons, Bond Street, Birmingham.

## SITUATIONS WANTED—Continued.

DISPENSER, Senior, or Locum-Tenens. J. H., 46 Kingsholme Villas, Gloster.

PART-TIME (26); outdoors. Jones, 3 Rochester Place, Camden Town, N.W.

ASSISTANT; married; unqualified; 3½ years in last situation. L., 19 Foregate, Stafford.

MANAGER, Branch (or Temporary); qualified; references; aged 45. Williams, 70 Ledbury Road, W.

ASSISTANT or country branch; aged 30. D., Office of The Chemist and Druggist, 42 Cannon Street, E.C.

ASSISTANT; Prescribe, Dispense; can travel, drive; 28; out preferred. "Almond," St. James's Hotel, Brightou.

RE-ENGAGEMENT as Traveller; town or country. "Delta," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

ADVERTISER (30) seeks situation in Mixed Retail and Dispensing business. "Chemist," Camberwell New Road, London.

AS Manager or Temporary, with view to early purchase preferred; disengaged May 1st. "Chemist," 37 Kellett Road, Brixton.

BRANCH Manager, or Outdoor Assistant, in a general Retail; registered. A. B., 33 Dempsey Street, Commercial Road, E.

ASSISTANT; outdoors; unqualified; temporary or otherwise; 20 years' varied experience; abstainer. "Energetic," Pharmacy, Whitstable.

PART-TIME (day, half-day, &c.); qualified; experienced; has already small West-end connection. O. H. Victor, 24 College Street, S.W.

IMPROVER (20) requires place in a good-class Chemist's business; passed Preliminary; time for study required. Lewis, Wesley Villa, Armley, Leeds.

ASSISTANT; qualified; aged 23; 6 years' experience; North of England preferred. Apply, stating terms, Bayliff, Kirkby Lonsdale, Westmoreland.

TRAVELLER seeks engagement; Sundries or Drugs; connection on South Coast; business references. "Chemist," 2 Stansfield Road, Brixton, S.W.

ASSISTANT or Branch Manager; indoors or out; aged 22; qualified; experienced Dispenser; Midlands preferred. "Chemist," Oxford Street, Oakengates.

AS General Assistant; unqualified; good references; moderate salary; total abstainer; medium age. "Zingiberis," 1 Pickering Street, Hulme, Manchester.

JUNIOR; outdoors; town or country; moderate hours; highest references; good dispenser; non-smoker; abstainer. "Pepsalia," The Lilacs, Watlington, Oxon.

ASSISTANT; 23½; outdoors preferred; suburbs or country; excellent references; 7 years experience (town and country); abstainer. Z, 203 Waterloo Road, London, S.E.

ASSISTANT; unqualified; married; experienced; disengaged Monday next; temporary or permanent. R., 3 Harper's Terrace, Henry Street, Sparkbrook, Birmingham.

EASY Hours, or Part-time; 12 years' good-class Dispensing experience, London and Continental; disengaged; personal interviews. W. P., 22 Colfe Road, Forest Hill, S.E.

MANAGER, or Senior, in high class business; permanency; liberal salary; equivalent services; aged 39; long experience, town and country. W. B., 90 New Bond Street, W.

QUALIFIED Manager; experienced; aged 35; in or near London; in a business, which, if desired, could be purchased by small instalments. O. J., 15 St. James' Square, Notting Hill, W.

MIDLANDS.—As Branch Manager: thoroughly experienced; good Tooth Extractor; married; highest references. "Stafford," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

JUNIOR (19½), 5 feet 10 inches, wants situation in London, with time for study and attendance of evening classes for Minor; 4 years' experience. "Assistant," 47 Market Street, Ashby-de-la-Zouch.

MANAGER or Senior; town or country; 40; married, one child; thoroughly experienced; excellent testimonials; disengaged. 154/23, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

CONSCIENTIOUS and pushing man, just disengaged; every attention given to master's interests; branch management preferred; married; Extractor. "Chemicals," 2 Mulberry Terrace, Hunslet, Leeds.

BRANCH Manager; Hall qualification (23); experienced Extractor (own instruments); country preferred; highest references. "Lancet," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

COMMERCIAL Traveller, having good connection in Lancashire and Yorkshire with Chemists, &c., wants to represent good house; tall, and of good address; references, &c. Apply, M. J., 78 Albion Street, Leeds.

CHEMIST'S SON, Minor student, requires board and lodging in return for part-time services; near Wills' preferred; aged 22; height 5 ft. 11 in. Apply, A. Taylor, Jun., Eccleshill, near Bradford, Yorks.

MANAGER or Senior; aged 29; married; 15 years' varied experience; registered Dental Surgeon; own instruments for all dental operations, including gas apparatus; highest testimonials; successful Prescriber and Salesman. "Chemicus," 17 Oelt Street, Leicester.

A MANUFACTURER doing a very large trade with the leading Chemists and Stores at home and abroad, also having a first-class connection amongst Shippers and the Wholesale trade, is desirous of in some way joining a firm reaching same class of buyers, with a view to saving double office and other expenses; advertiser's goods are well known all over the world; would not object to joining a good provincial house wishing to establish a branch in London; replies treated with utmost confidence, the same being expected in return. Apply, in first instance, "Genuine," 357, care of Messrs. Deacon's, Leadenhall Street, E.C.

## MISCELLANEOUS.

*Special charges are made for Advertisements under this heading which can be obtained on application.*

WANTED, to buy direct from manufacturers Aluminium Sulphate and Bichromate of Potash. 261/10, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

TO STUDENTS.—Partial board and residence, with assistance in studies; 13s. 6d. weekly; full board on Sundays; pleasant, healthy suburb; a home from home; penny tram to Wills' or Muter's; references to past students, Minor and Major. "Pharmacist," 52 Ivanhoe Road, Denmark Park, S.E.

TO Chemists and Druggists.—"Remlion" Blood-Staunching Powder.—An invaluable article for stopping bleeding from wounds, &c., and healing of same; packed in boxes of 12 and 24 bottles; price 5s. and 10s.; remittance with order. Manufactured and sold by P. G. Vollmer, 2 Beecholme Road, High Road, Upper Clapton, N.E.

SPECIALITY.] WAFERS [SPECIALITY.

FOR Bakers and Druggists, from P. G. Bauriedel in Nuremberg (Germany), Flour Mills and largest Steam Factory of the finest and guaranteed purest, cheapest, and best Wafer Papers; write for samples and prices. Agents wanted everywhere.

PRELIMINARY AND MINOR.

TULLY'S method of preparation is without equal, send for particulars. Knotty Points in Latin Grammar, 1s. 6d.; Cæsar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d., Equations Simplified, 1s.; Students' Herbarium, 100 specimens, 1s. 6d., post free. Mr. J. Tully (Hill's Prizeman), Chemist, Hastings.

PRELIMINARY AND MINOR.

STUDENTS! If you wish to prepare for Examination easily and thoroughly, without leaving business or expending time and money on "correspondence systems" (?), write to Mr. Filtness, Chemist, Crowboro' Cross, Tunbridge Wells, for "How to Prepare for Exam.," gratis and post free. Success guaranteed. No Fee.

STERLING'S "MINOR AIDS."

Organic Materia Medica. Concisely tabulated, thus saving much time and laborious reading. In stiff boards, cloth gilt, post free, 1s. 7d.
Notes on Dispensing. 3rd Edition. Post free, 1s. 1d.
Botanical Companion: How to Describe a Plant, &c. Post free, 7d.
Doses, Sp. Gravities, and Percentages of B.P. 1885 and 1890. Vest pocket edition. Post free, 4d.
Sold by H. Kimpton, 82 High Holborn. All orders *by post* should be addressed to the Publisher—

GOWER, 4 Lancing Road, Ealing, London (*late of Hackney.*)

ROUSE'S STANDARD CARMINE

*One ounce Tins, 1/8; post free for P. O., or through any Wholesale House.*

IMPROVED AND ORIGINAL FORMULÆ GIVEN with each tin for the preparation of Face Powders, Bloom of Roses, Liquid Cochineal (labels for these supplied gratis), and practical suggestions and formulæ for its economical use in Tooth Pastes, Tooth Powders, Rose-leaf Powder, &c.

ROUSE & CO., WIGMORE STREET, LONDON, W.

Printed by Spottiswoode & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*April* 4, 1891.

is not to be repeated. The fourteen retiring members seek re-election, and with them are two other candidates only, Mr. Spink, who has tried before, and Mr. Botwood, of Dartford. The prospect of a radical change in the constitution of the Council for the new half-century's work is therefore as blank as it can possibly be. The absence of any serious opposition may be taken as indicating approval of the actions and policy of the present Council, or of hopeless indifferenee to its proceedings, according to the point of view from which it is observed. It is not surprising that reformers have lost heart. They have seen certain of their number get into the Bloomsbury vortex, and, after more or less spasmodic efforts to battle with the current, settle down into complacent disregard of their pre-Council notions. Reform is decidedly at a discount. And so are the Society's finanees. It savours of iteration to return to this snbject month after month ; but there is need for it, and it would appear from the frightened expressions of several members of the Council on Wednesday that the financial statement for 1890 is likely to prove the correctness of all that we have said these past thiee years. Whatever that may show, the quarter just ended is sufficient to justify some seriousness. The Soeiety's income is chiefly made up of subscriptions and examination-fees, which yield between 10,000*l.* and 11,000*l.* a year. Interest and rents may bring the amount up to the latter figure this year. For the first quarter of 1891 the receipts and expenditnre have been as follows :—

| — | Receipts | Expenditure |
|---|---|---|
| January .. .. .. | £1,029 | £1,655 |
| Feorurary .. .. .. | 867 | 1,411 |
| March .. .. .. | 1,925 | 1,169 |
| Total .. .. | £3,811 | £4,235 |

The Council was compelled to sell out 1,500*l.* of Consols in January in order to meet its liabilities, and it may be mentioned that part of the quarter's expense is on aecount of the journal—say 1,000*l.*—which will in due course be balanced, or nearly so, by the publisher's remittance. But there are other figures to take into account. For instance, salaries, annnities, and the like, for the first quarter and last month have still to be paid, and these will swallow up 1,000*l.* Moreover, the receipts for March include 1,087*l.* from examination-fees, which carry with them a liability yet to be met. It will be seen, therefore, that the first qnarter, which is the best one of the year so far as income is concerned, has been a decidedly bad one for the Society. How matters will go during the remainder of the year may be judged from the following figures :—

| | £ | | £ |
|---|---|---|---|
| Cash balance. April 1 .. | 1,215 | Payments authorised, April 1 .. .. .. | 2,382 |
| Subscriptions to be paid.. | 2,800 | Payments (estimated) for next nine months .. | 7,800 |
| Examination-fees .. .. | 4 200 | | |
| Other sources .. .. | 300 | | |
| Total .. .. | £9,515 | Total .. .. | £10,182 |

Keeping in mind the fact that we exclude from these figures the jonrnal, which is not a source of revenue, and that 1,500*l.* of invested capital has already been absorbed this year, it is obvious that those members who are alarmed about the financial eondition of the Society have reason for their anxiety. It would appear that the Council has to face a deficit of at least 1,000*l.* during the current year, and there is little hope of reducing it, for it is caused by 20,000*l.* of the capital having been invested in new buildings, which, in addition to cutting off 300*l.* of revenue, require about 700*l.* for maintenanee, this including the 350*l.* a year to the Research Laboratory. It is a case of burning the candle at both ends.

The anonymous and generous Lancashire gentleman who has given 1,000*l.* to found a scholarship will deserve well of posterity. His gift is a munificent one, but far more notable is the precedent which he has created in the foundation of a local scholarship. Pharmacentical education in this country will never be perfect until there are well-organised centres of education in the provinces. The first step in creating such centres is to throw life into populous localities in the shape of incentives for embryonic pharmacists to study. There is a danger in panperising students, but this risk need not involve the impoverishment of facilities for willing lads to get on in their calling. Unhappily there are few men in pharmacy who can afford to follow in the footsteps of the Manchester donor, but the example which he has shown will help to re-invest provincial edueation with new interest, and we trust that Mr. Harrison's quotation may prove as truthful as it was happy: "What Lancashire says to-day, England says to-morrow." What the Council had to do in this matter was complimentary and formal, but it was none the less noteworthy. Of the Jubilee a little more was said, but not sufficient to call for special comment.

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## DRUG CONTRACTS.

HOSPITALS and workhouses consume such large quantities of drugs, are such sure payers, and give so little trouble, that it is not surprising that wholesale houses put them on special terms such as retailers never obtain. When we hear of this board of guardians or that hospital committee accepting a contract 20 or 25 per cent. below "list prices," we naturally suppose that the contractors know what they are doing and are not sacrificing all their profit. But from inquiry which we have made it seems open to question whether the corporate consumers are getting the large concessions which they imagine. There are contracts and contracts. At the head of them may be placed the Government system, which consists in furnishing each contractor with a list of drugs and quantities thereof required during a specified period. This is a plan adopted by several of the prineipal hospitals—St. Thomas's, for example. Next there is the tender, which includes quantities of the principal articles of consumption, with an addition such as—"a price current to be forwarded by the contractors monthly, and all goods not included in the tender are to be charged at the prices named in such price current subject to a discount of — per cent." Another plan is to supply contractors with a list of the drugs with prices attached, and invite discounts off these as a whole. Still another is to give a list of the drugs and invite prices for them. Obviously the only method not open to abuse is the first. All the others place the consumers more or less at the mercy of the contractors. Perhaps the most unsatisfactory system is the one last mentioned. In this the factor which determines the decision is the total of the prices of all the articles, irrespective of the quantities consumed. Knowing this, many contractors purposely price those articles which are little used at low figures, whereby they are able to put the staple articles in at something approaching ordinary prices. For instance, such articles as perchloride of mercury and nitrate of silver can be put in at as many pence per pound and ounce as they cost shillings, and as scarcely a pound or an ounce of them may be used in the course of the year, the loss will be trifling. With a dozen or two articles such as these in a tender, there is ample room to stick on a sixpence here

and there on articles which are consumed in large quantities, yet keeping the tender low and leaving a large margin of profit to the contractor. Although this trick has long been known, strange to say the system under which it is possible still obtains in some parts of the country, and amongst workhouses where medicine-bills are paid by the State. The discount system, as applied to the priced lists issued by the consumers to contractors, appears to be free from the objection, except that in most cases the prices are arbitrary, and have little connection with market prices. That is, doubtless, taken into account by contractors, who are careful to make their discounts apply particularly to the articles of greatest consumption. The most objectionable form of tender is the list discount one, which is still kept up by many boards of guardians. It would be all right if but one "prices current" were issued by wholesale houses, but all the leading firms have three—wholesale, druggists', and medical. Twenty-five per cent. off the last would often leave a larger profit than 15 per cent. off the second, as the following examples will show:—

| — | Wholesale | | Druggists' | | Medical | |
|---|---|---|---|---|---|---|
| | s. d. | | s. d. | | s. d. | |
| Ammon. brom. .. | 2 1 | per lb. | 2 4 | per lb | 2 6 | per lb. |
| Bismuth. carb. .. | 8 2 | ,, | 8 9 | ,, | 9 6 | ,, |
| Dec. aloes co. conc. | 3 2 | ,, | 3 9 | ,, | 4 6 | ,, |
| Emp. saponis .. | 80 0 | per cwt | 0 11 | ,, | 1 0 | ,, |
| Infus. buchu .. .. | 1 0 | per lb. | 1 4 | ,, | 1 6 | ,, |
| Liq. bismuthi .. | 0 9 | ,, | 1 0 | ,, | 1 2 | ,, |
| Spt. æther. nit. .. | 3 0 | ,, | 3 2 | ,, | 3 4 | ,, |

It is obvious that if price lists are not submitted with the tenders, and these carefully compared by those who determine the contracts, the highest discounts may rarely mean the lowest prices. There is a strong suspicion that it is medical lists which have in many cases done duty in the past, and so convinced have several of the principal wholesale houses in London become of this that they are now refusing to tender for the supply of drugs to those guardians who follow the discount plan. There is an indication that guardians are beginning to appreciate the falsity of discounts. The St. Pancras guardians have insisted on net prices for some years, following the Government plan of stating approximately the quantities required. Their drug account amounts to at least 1,000*l.* a year. Recently the St. Saviour's guardians have followed their example, and their bill comes to about the same. In this case it is stipulated that articles not in the contract should be charged at wholesale net prices. There are many reasons why such a plan as this should be universally adopted by boards of guardians, and it would be of advantage to the ratepayers if the Local Government Board would interest itself in the matter so as to establish a uniform system. Judging from the net prices which are quoted for stipulated quantities, and the discount rates of unspecified price lists, the former method is altogether the best for the public, since in many cases it has effected a saving equal to 10 and 20 per cent. in the drug-bills of workhouses. It is at the same time the best check against waste and extravagance in the dispensary, an estimate having been made at the beginning of the year of the quantities of drugs required, this being based on the previous year's consumption. Boards obtain from the contractors an approximate estimate for the year's supply, and the reason for any material increase subsequently can readily be traced. The fact that the system is adopted by certain Government departments, and by the largest hospitals in the country, and is found to work admirably, giving both suppliers and consumers satisfaction, is perhaps the best argument for its universal adoption by boards of guardians.

## CAVENDISH.

Mr. Joseph Cowen, ex-politician and proprietor of the Newcastle *Daily Chronicle*, has the reputation of being a bold man, but it only needs a cheap courage to libel a man who has been dead the best part of a century. In his scientific column of last Saturday Mr. Cowen publishes a comment on Sir Lyon Playfair's reference to the Hon. Henry Cavendish in his speech at the Chemical Society's jubilee. Sir L. Playfair did not tell all the truth about that extraordinary man, says the *Chronicle*,

> The occasion did not require him to do so, and it was enough that he should claim him "as a master among chemists" But it is doubtful that a meaner mortal ever breathed the breath of life than that forerunner in the kith and kin of Lord Hartington. An unadulterated misanthropist, he cared for nobody, he loved nobody, he distrusted humanity, he despised reputation, he shunned intercourse with his kind, he never laughed, he never wept, he seldom spoke, he was the first to set forth clearly the phenomena of its production and the properties of hydrogen, he was the first to prove the unvarying composition of atmospheric air, he gave the first account of the composition of nitric acid, he made the crowning discovery of the composition of water, and he gave his whole life to science, but not a farthing, if possible, of his money. Yet at his death in 1810, he left 700,000*l.* in the funds, and an estate worth 6,000*l.* a year.

A strange, shy man was Cavendish—one who, as far as is known, never opened his mind in sympathy to any human being. But there is assuredly no ground for describing him as a mean man. His vast wealth came to him after he had contracted inexpensive habits, and apparently he never realised the possibility of using it either for himself or for others. Once a scientific acquaintance told him of the reduced circumstances of a gentleman whom he had once employed to arrange his library. "I am very sorry to hear it," said Cavendish. "Could you not do something for him, sir?" pursued his interlocutor. "I! What can I do?" asked the millionaire in amazement. "A little annuity, sir, would be a true act of charity," was the reply. "Well, well, well," answered Cavendish; "would a cheque for ten thousand pounds do?" "Oh, sir! more than sufficient." And the cheque was duly written.

## PECULIARITIES OF CARBOLIC ACID.

Two years ago Mons. P. Carles pointed out to the Society of Pharmacy of Bordeaux that, when carbolic acid is mixed in certain proportions with glycerine or alcohol, it loses its causticity, and does not affect the skin; but the addition of water suffices to bring out again this well-known characteristic of carbolic acid. He, therefore, came to the conclusion that phenol combines with glycerine and alcohol to form ethers which are non-caustic and are readily split up by water. M. Eduard Fabini questions in the *Pharmaceutische Post* the correctness of this conclusion, but does not deny that a solution of equal parts of glycerine and phenol is much less caustic than a solution of equal parts of phenol and water. The non-causticity is really due, he thinks, to the glycerine solution containing no water, so that the skin is unable to absorb any of the phenol. Thus, perfectly dry phenol, silver nitrate, and similar escharotics can be held in dry hands without fear of damage. As to phenol combining with glycerine to form an ether, M. Fabini states that solutions in all proportions above 4 per cent. give the characteristic reaction with ferric chloride. The weaker solutions gradually develop the colour. So also solutions containing more than 4 per cent. of phenol coagulate albumen, and give the characteristic green copper-phenylate reaction immediately on adding a little ammoniacal solution of copper sulphate. Solution containing 4 per cent. or less give the same reactions after

twenty hours, and the inference is that the glycerine only delays the reaction, not that it is in combination with the phenol. This property, we may add, is one which glycerine is well known to possess, in common with mucilage, and, if either of these be added to aqueous solutions of inorganic salts, it will be found that, on the addition of reagents, the reactions are sensibly prompter in the case of plain water solutions. It is logical to suppose that if glycerine of carbolic acid, 1 in 25, is chemically and physiologically weaker than an aqueous solution of the same strength, it will also be inferior antiseptically. It would be interesting to have the antibacterial power of the glycerine determined. This recalls to us the fact that carbolic oil is an exceedingly weak germicide, and is *per se* probably not germicidal. Some time ago an Edinburgh pharmacist had his attention called to a peculiarity in a surgical case, in which carbolic oil was used as a dressing, did not progress, but as soon as carbolic lotion was employed manifest improvement set in. Subsequently a few experiments served to demonstrate that bacteria sported about freely in carbolic oil 1 in 20, but were quickly killed by aqueous solution of the same strength. The conclusion arrived at was that if wounds exhibit a fair amount of serous discharge carbolic oil acts antiseptically, but if not it is no better than plain olive oil. Fabini's experience is a striking confirmation of this conclusion.

## COMMENTARY.

Wine Licences for Chemists.—In our news column this week appears a report of a refusal on the part of the Kingston magistrates to grant a wine retailer's licence to a chemist who had duly applied for one, and who had apparently fulfilled all the required conditions. The Inland Revenue Act, 32 & 33 Vict. c. 27, sec. 27, expressly declares that the magistrates have no power to refuse the application except for reasons of character or disqualification of premises, neither of which is alleged in the present case. The magistrates and their clerk allude to some recent decision which gives greater power to justices than they have been previously believed to possess. We hope Mr. Greenwood will endeavour to ascertain particulars of that decision. It will be important to other chemists besides himself.

The Cry of Chemists' Assistants.—The *Star* gives big type to a letter from "Abel Drugger," who is a young man, with five years' experience of pharmacy, and who, in that period, has had twelve holidays. "Abel Drugger" works ninety-two hours a week, and wants a reduction. He says:—"The public expect from us a great deal more than they do from their provision merchant, their draper, or their bootmaker, and we receive wages that a first-class housemaid would turn up her nose at, and are imprisoned like convicts from one year's end to another. Even Sir John Lubbock's Bill exempted, I believe, the chemist's assistant from its provisions, and there is no reason for keeping open later than any other shop, except the selfish indifference of the public. There is not one case of urgent necessity out of fifty of those who shop after the usual hours, and theirs is so urgent that they could generally have come half an hour before if they had chosen. The ladies, for whom I have the warmest admiration, but who are not above criticism, leave the unfortunate chemist to the last—'he's sure to be open'—and drop in just at closing time for a bottle of 'the mixture as before' and a chat with the governor. We have no organisation, no paper to represent us—our trade journals are run in the interests of the masters; what are we to do? I say, form an organisation—run a paper; and if you will give publicity to this letter it may be the means of bringing it about. I shall be there if they have to hold the meetings at midnight." Although we have published hundreds of letters like this during the past five years, we give "Abel Drugger's" aspirations this publicity, and wait for more of the "bitter cry," expressed with as few adjectives as possible.

Criticism of the Pharmacy Bill.—"Chemicus" is again making uncomfortable comments on the Pharmaceutical Society's Bill in the *Globe*. He is evidently a pharmacist—at least his references to what has been done show that he is acquainted with the proceedings and discussions from which this Bill has evoluted. This Bill, he says, "is certainly a great improvement on previous Acts [Bills he means, probably], especially as it provides for an efficient and compulsory education of all who enter the business; but, unfortunately, a vital mistake has been made in inserting in clause 6 words which will render the Bill perfectly useless for protecting the public from incompetent and ignorant dispensers." His objection is to the provision which will allow unqualified persons to dispense medical prescriptions "under the supervision" of a qualified person. This, he says, is a loophole put in to please a few members of the trade who keep plurality of shops, to enable them to evade the Act by employing any number of unqualified persons under the guise of "supervision." Even if it contained the words "immediate supervision," as in the original draft, it would not be a sufficient safeguard to the public.

As a practical man, I can say it is impossible for a qualified person to look after one assistant and to guarantee correctness of dispensing, unless he did nothing else but to watch every bottle which the assistant takes from the shelf and see that he has the right quantity in his measure or the right weight in his scales. There is now plenty of time, and it is hoped Parliament will interfere and strike out these objectionable words before the Bill becomes law. A solicitor may employ an unqualified clerk to draw up deeds, but the solicitor has the advantage that he can detect an error if he chooses to read the deed; but certainly a chemist cannot detect an error so easily. He may tell whether one pungent ingredient has been used instead of another by the smell, or he may detect an error in the directions for taking the medicine, but he cannot say without analysing the mixture whether some poisonous substance has been used instead of some harmless ingredient. If a chemist has more prescriptions to dispense than he can do himself, he can afford and ought to engage a qualified assistant to assist him, or he may employ unqualified men or women in any other branch of his business, but he has no right to risk the life of his customers to an ignorant person, any more than a medical man is justified in sending an unqualified assistant to see to his patients.

## PHARMACEUTICAL ETYMOLOGY.

By Richard Seaton.

MR. HYSLOP deserves the thanks of all pharmacists for directing attention to this fascinating study. The etymology of pharmaceutical names and words appears to have been much neglected—why, I cannot say, for the high antiquity of many of them points to a field of research most interesting to the philologist.

Let us take, to begin with, the name of this journal, Chemist and Druggist, and, at the very start, we shall have a word of the greatest interest.

"Chemist," or, as it is sometimes spelt, "chymist." Neither of these two spellings has obtained a complete ascendency over the other; we cannot say that one of these is certainly right, and the other certainly wrong. Each represents different etymologies of the word, and each is right according to its own, and this difference in the spelling seems to have existed from a very early time. When we write "chymist," we implicitly affirm the word to be derived from the Greek *chymos* sap, and "chymistry" will then be the art of distilling the juice or sap of plants. Many, however, say that the art of amalgamating metals was more ancient than that of the distillation of herbs, and trace the derivation of "chemist" from *Chemia*, the Greek name for Egypt, where this art was first practised with

success. This derivation is certainly more in accord with the modern meaning of the word.

"Druggist" comes to us through the old French *drogue*, from the Dutch *droog*. *Droogen*, the plural of *droog*, means literally "dried roots," and was used in the special sense of "drugs."

Several chemical names, such as bismuth, quartz, shale, &c., are derived directly from the German. Here I may be allowed to remark on the absurd idea that many people have that English is very largely taken from German. English and German are certainly sister languages, and English is, in fact, rather older than German. For a complete list of English words (twenty-four or perhaps twenty-five) derived directly from German, see Skeat's "Principles of English Etymology," 1st series, page 85.

Aconite: Here I must differ a little from Mr. Hyslop; aconite was so named, not because it is a sharp poison, but because it grows *en akonais*, "on steep sharp rocks"; *ak one* "a whet-stone, sharp stone."

Ammonia is so called because sal-ammoniac was first obtained near the temple to Jupiter at Ammon.

Bergamot is simply named after the town of Bergamo, in Lombardy.

Borax we get through the Low Latin *borax*, from the Arabic *búráy*, or Persian *búrah*, "horax."

Calomel is a word coined to express a white product obtained from a black substance. Greek, *kalli*, prefix (from *kallos*, "good, fair,") and *melas*, "black."

Chamomile: From the Greek *chamar-melon*, literally "ground apple," from the apple-like smell of the flowers.

Charcoal means "turned to coal," the Anglo-Saxon word *char* meaning simply "to turn." Coal is also an Anglo-Saxon word, and cognate words are found in every member of the Teutonic group of languages. Compare the Sanskrit *joul*, meaning to "blaze."

Chlorine is named from its colour—Greek *chloros*, "pale green." In "chloroform" the last syllable relates to formic acid, which was formerly obtained from ants; Latin *formica*, "an ant."

Cochineal: From the Greek *kokkos*, "a berry"—from the berry-like appearance of the insects. The word comes to us through the Spanish, which took from the Latin *coccum*, which in its turn is derived from the Greek. Most of our Latin words come to us through French, and most Greek words through Latin. This applies only to words which have been long in the language. Modern words are derived directly from the original source.

Copper is from *Kupros*, Cyprus, where the metal was first obtained. "Copperas" is from the Old French *copperose*—Italian *copparosa*—a derivative of the Latin *cupri rosa*, "rose of copper," a translation of the Greek *kalk anthos*, "brass flower, copperas." I notice Professor Attfield, in his "Chemistry," gives "copperas" as a corruption of "copper rust"; but this derivation is probably erroneous.

Dandelion is not a corruption of the Latin *dens-leonis*, as Mr. Hyslop says, but of the French *dent-de-lion*, a translation of the Latin *dens-leonis*.

Essence is from Latin *esse*, "to be," and so means the very life and being of a substance. "Tincture" is from the Latin *tingere*, "to dye," and so means only dyed with any substance. This distinction, however, hardly seems to be observed.

Fennel is another Anglo-Saxon word, but taken from the Latin *fœniculum*, "fennel," a double diminutive of *fenum*, "hay."

Gamboge is a corruption of Cambodia, a town in the Assam territory, whence it was first brought, about A.D. 1600.

Gutta-percha: The spelling "gutta" is due to confusion with the Latin *gutta*, "a drop," with which it has nothing to do, being derived from the Malay *gutah*, or *guttah*, "gum, balsam," and "percha," the name of the tree producing it.

Iodine is named from the violet colour of its vapour; Greek, *iod-es*, "violet-like."

Ipecacuanha we get through Spanish from the Brazilian name of the plant *ipé-kaa-guaña*. *Ipé*=*peb*, "small"; *kaa*, "plant"; *guaña*, "causing sickness."

Isinglass is a corruption of old Dutch *huyzenblas*, modern Dutch *huizenblas*, "isinglass," literally "sturgeon-bladder," whence isinglass is obtained. Derived from Dutch *huiza*, "a sturgeon," and *blas*, "a bladder," from *blasen*, "to blow."

Juniper is from Latin *juniperus*, literally "youth-renewing," because it is evergreen.

Lac is from the Persian *lak* or *luk*, "gum-lac," whence crimson lake is obtained for dyeing. In Sanskrit the word occurs as *lákshá*.

Leech is from the Anglo-Saxon *læce*, literally "the healer."

Lettuce is from the Latin *lactuca*, named from the milk-like appearance of its juice.

Linseed, from Latin *linum*, "flax," and English "seed."

Lint is a shortened form of Latin *linteum*, "a linen cloth," from *linum*, "flax."

Liquorice, or licorice, is a corruption of the true spelling, "glycyrrhiza," from the Greek *glykyrrhiza*, literally "sweet root."

Litharge is from the Greek *lithargyros*, literally "stone silver."

Litmus is a corrupted form of the Dutch *lakmoes*, "a blue dye-stuff," derived from *lak*, "lac," and *moes*, "pulp," allied to German *lackmuss*, "litmus."

Logwood is so called because it is imported in logs.

Lozenges owe their name to their shape. Spanish, *losange*, "a rhombus," from *losa*, "a square stone for paving." This, perhaps, is from Latin *laud*, stem of *laus*, "praise," for we find Spanish *lauda*, "a tombstone with an epitaph."

Magnesia takes its name from Magnesia, a town in Thessaly.

Mercury is named, as everyone knows, from Mercury, the god of traffic. Latin *merc*, stem of *merx*, "merchandise."

Mulberry: In this word, as is so often the case, the "l" stands for an older "r." Thus "mul" is the same as the Anglo-Saxon *mor*, which is borrowed from the Latin *morus*, the name of the tree. Those who know their Ovid will recall the beautiful story of Pyramus and Thishe, in his Metamorphoses, which was so cruelly burlesqued by Shakespeare, in the "Midsummer Night's Dream."

Mustard takes its name from its being mixed with *must*, or vinegar.

Myrrh traces back through a long descent to the Arabic *murr*, "bitter." The word *marah* in the Old Testament is of the same derivation.

Nicotine is from the French *Nicotaine*, a word taken from the name of Nicot, who first sent tobacco into France in 1560.

Nitrogen: From the Greek *nitro-gen*, "that which produces nitre." Nitre is the same as natron, a native alkaline salt, but the two words have had different meanings assigned to them.

Nutmeg, "the musk-nut," is derived through French and Latin from the Persian and Sanskrit *Meg* (Middle English *muge*) is from the Old French *muge*, "musk."

Ointment is from the Latin *unguentum* derived from *ungere*, "to anoint." Compare Sanskrit *añg*, "to smear."

Opium: Poppy-juice, from the Greek *opos*, "sap."

Oxygen, literally "the acid producer," from the Greek *oxus*, "sharp, acid," and *gen*, "to produce." The meaning is well seen in Oxymel, "acid-honey."

Phosphorus: The "light producer," from Greek *phos*, "light," and *phoros*, "bringing."

Pomegranate: Derived through French and Italian from Latin *pomum*, "an apple," and *granatum*, "full of seeds," from *granum*, "a seed."

Potash is derived from the Kellic *pot*, "a drinking-vessel," and English "ash," and means, therefore, ashes obtained by burning vegetable substances in a pot.

Poultice: From the Latin *pultes*, plural of *puls*, "a thick pap, or pap-like substance." Compare the Greek *poltos*, "porridge."

Raisin is derived from the Latin *racemus*, "a cluster," because the grapes grow in a cluster.

Rosemary is from the Latin *rosmarinum*, called *ros maris* in Ovid. Latin, *ros*, "dew," *marinus*, "marine." It is named from some fancied connection with sea-spray. The etymology sometimes given of "Rose of Mary" (*i.e.*, the Virgin Mary) is entirely erroneous.

Sarsaparilla is of Spanish origin. Spanish *zarza* means "a bramble"; *parilla* is probably a diminutive of *parra*, "a trained vine."

Senna, as is well known, takes its name from the province where it is grown.

Soap is an English word, being found in Anglo-Saxon as *sápe*. Perhaps the Latin *sapo* was borrowed from the Teutonic. The true Latin cognate word seems to be *sebum*, "tallow, grease."

Soda is from the Italian *soda*, "a kind of fearne ashe whereof they make glasses" (Florio). Soda answers to the Latin *solida*, "hard," probably from the hardness of the products obtained from glasswort.

Squill is from the Greek *skilla*, "a squill." Put for *skid-la*, from its easily splitting into scales.

Tamarind comes through French and Spanish, from the Arabic, *tamr*, "a ripe date," and *Hind*, India. Literally, "Indian date." *Hind* is borrowed from the Persian (which turns "s" into "h"), and is derived from the Sanskrit *Sindhu*, the river Indus.

Tartar is a word due to the alchemists. It is called "saltartre" in Chaucer, who takes it from the French *tartre*, which, in its turn, is from the Latin *tartarum*. Compare the Arabic, *dura*, "dregs, sediment, tartar of wine." The Arabic *darca* means "a shedding of teeth," and the word "tartar" used to designate the incrustation formed on teeth, is generally derived from this.

Treacle is a most interesting word, derived from the Greek *therion*, "a viper." It wraps up in itself the once popular belief (a partial anticipation of homœopathy) that confection of viper's flesh was the most potent antidote against the viper's bite. Thus Waller writes:—"Your vipers treacle yield, and scorpions oil." Treacle, meaning first the antidote against vipers' bites, came next to designate any antidote, then any medicinal confection, and finally the favourite excipient used for compounding them.

Turmeric: French, *terre mérité*, from the Latin *terra-merita*, apparently "excellent earth"; but *terra-merita* is probably a barbarous corruption—perhaps of the Arabic name *kurkum*.

With Mr. Hyslop's recommendation of the study of languages we must all cordially agree. Let me quote, in conclusion, the words of an eloquent writer (the late Archbishop Trench) on the subject: "I shall urge on you how well it will repay you to study the words which you are in the habit of using or of meeting, be they such as relate to highest spiritual things, or our common words of the shop and the market, and of all the familiar intercourse of daily life. It will, indeed, repay you far better than you can easily believe. I am sure, at least, that for many a young man his first discovery of the fact that words are living powers, are the vestnre—yea, even the body—which thoughts weave for themselves, has been like the dropping of scales from his eyes—like the acquiring of another sense, or the introduction into a new world. He is never able to cease wondering at the moral marvels that surround him on every side, and ever reveal themselves more and more to his gaze."

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By Edward H. Storey.

I hope the interesting paper by Mr. Hyslop on Pharmaceutical Etymology, may lead to a deeper study of that most interesting subject, though there must always remain a great amount of doubt as to the origin of words handed down to us from remote ages, it being impossible in some cases to say which nation introduced a particular medicine and which may have adopted it from another.

With reference to the derivation of the word "bismuth" and its original signification I would point out, as an alternative to "the lively white" theory, what Pereira says on the subject: "The old miners call it wismuth," says Mathesius "because it blooms like a beautiful meadow (Wiesematte), on which variegated flowers of all kinds are blooming." The etymology of "saffron," according to Hyslop, or at any rate as given in your epitome of that gentleman's paper, was apparently "stretched" for the purpose of working in that little joke, and not intended to be taken seriously, for it seems to be generally admitted that the derivation is Persian. Pereira, for instance, says, "The word saffron (*Zafaran*) is probably of Persian origin"; and Beckmann, in his interesting work called "A History of Inventions and Discoveries," published (in England) 1797, also derives it from the Persian (*Zaeferan*). I trust that all your readers will give us any information they may possess on the topic so ably introduced by Mr. Hyslop's paper.

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## THE IMPURITY OF SNOW.

By Alfred Mander, Pharmaceutical Chemist.

In the course of an investigation I had occasion to examine some snow that fell during the recent storm. As snow is always considered to be such an efficient cleanser of the atmosphere and nourisher of the soil, a certain amount of organic contamination was expected, but, not having seen reports of other analyses of snow-water, I am unable to state whether the proportions in this particular instance are abnormal.

Clean snow was collected on the morning of March 10, and the water obtained by melting was fairly bright, but with a considerable amount of fibrous matter in suspension. On careful evaporation the blackish residue corresponded to 2·4 grains per gallon of total solids. Chlorides existed in faint traces, and nitrites were absent.

Simple distillation, and subsequent distillation after addition of alkaline permanganate, yielded the following proportions of "free" and "albuminoid" ammonias:—

| | | |
|---|---|---|
| Ammonia, free | .. .. | 0·16 part per million |
| Ammonia, albuminoid | .. | 0·54 „ „ |

The presence of iron was proved very distinctly on the addition of $NH_4HS$. Possibly the greater part of this may be due to the comparative proximity of the Black Country and the northerly to north-easterly direction of the wind prevailing with great force through the storm.

Purity of snow, as a figure of speech, appears therefore to have no foundation in fact, even when collected in the heart of an agricultural area. Comparisons with results obtained from that falling in the centre of manufacturing districts would furnish much interesting matter for discussion.

The Belle Vue Pharmacy, Malvern.

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# Scientific Notes:

*On Chemistry, Pharmacy, Botany, Materia Medica, &c. Original, Selected, and Translated.*

### Otto of Rose.

According to V. Markovnikoff, who writes in the *Berichte*, the stearoptene otto of rose melts at 36·5°, and has all the properties of a paraffin; it is perfectly inodorous, and is, therefore, of no value with regard to the quality of the oil. The liquid portion or eleoptene boils within narrow limits, and appears to be a mixture of two substances—$C_{10}H_{20}O$ and $C_{10}H_{18}O$, one of which is an alcohol, and forms the chief constituent of otto of rose.

### Cocaine Reactions.

Professor Flückiger, writing to the *Phar. Zeitung* regarding recent suggestions for the detection of cocaine, states, regarding the calomel test described by our Paris correspondent, that the reduction of the calomel only takes place when that substance is boiled with *free* cocaine in the presence of water, and not at all when spirit is used. The reaction does not take place with cocaine hydrochloride. Vitali's test is performed by dissolving a little cocaine, or any of its salts, in sulphuric acid (s.g. 1·843), and adding a piece of potassium iodate the size of a barleycorn, when a green colour is produced. Professor Flückiger has also failed to get this reaction. At the best, he has only been able to observe a red colour.

# Trade Report.

*Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.*

*It should also be recollected that for many articles the range of quality is very wide.*

42 CANNON STREET, April 2.

BUSINESS in the drug and chemical markets is still suffering from the interruption caused by the Easter holidays, and transactions have, on the whole, been comparatively unimportant. No drysaltery or spice sales took place this week, and the drug-auctions held to-day were small and uninteresting. The principal changes are as follows in drugs:—Higher: camphor, cardamoms, lemongrass oil, Guayaquil bark, and Tinnevelly senna. Firm: jalap, nux vomica, and vanilla. Lower: star-anise, cod-liver oil, musk, ipecacuanna, quassia, senega, calabar beans, and honey. In fine chemicals there are but few alterations to note. Antimonial preparations are easier, bismuth salts have undergone some alteration, cocaine is dearer, refined camphor firm, and quinine steady. In heavy chemicals and drysalteries prices generally favour sellers. Thus shellac, indiarubber, hyposulphite of soda, East Indian indigo, Irish moss, guinea grains, olive oil, castor oil, cocoanut oil, and palm oil are higher in price; galls, gambier, and tea are firm; and Zanzibar cloves, pepper, and arsenic are the only articles of importance which show a decided weakness.

SUMATRA CINCHONA.—We announced last week that two cases cinchona from the island of Sumatra were included in the bark sales held to-day at Amsterdam. It appears, however, that there are not now and never have been any plantations in the proper sense of the word in that island. The two cases Succirubra quills in question (first destined for the April sales, but since withdrawn) are the remainder of an old lot placed in sale here some years ago and which was the produce of some old trees, planted at least twenty-five years ago by missionaries sent out by the well known quinine manufacturer, Mr. C. Zimmer, sen., of Sachsenhausen. History does not record how it was that the missionaries left the cinchona trees to grow at their own sweet will, but it is a fact that the existence of the trees was completely forgotten. Some four or five years ago, however, they were rediscovered and their bark harvested. The bark was of splendid quality, but badly prepared and packed; part of it was sold at about 70 cents per ½ kilo. It would have been worth double that price if it had not been country-damaged.

THE COMING CHICAGO EXHIBITION.—The organisers of the "World's Columbian Exposition" have organised a special Press Bureau for the purpose of issuing periodical reports of the progress of the undertaking. The reports are more or less lengthy manifestoes of the florid and adjective-laden order beloved of Transatlantic journalists. The latest of these communications informs us that the Chicago Exhibition will occupy a site four times as large, while its buildings will cost twice as much, as those of the Paris Exhibition of 1889. On Lake Michigan will be placed a reproduction, as exact as possible, of the fleet with which Columbus, four centuries ago, sailed from Palos. The largest building of the exhibition will be that of manufactures and liberal arts, measuring 1700 by 800 feet, with two interior courts and a central dome 350 feet in diameter. This building is to cover over 31 acres, nearly three times the area of the largest building in the Paris Exhibition. The lake steamers will start from a pier 400 feet in length and adorned with 45 statues representing the Union and the 44 States embraced in it. The Proctor Tower will be 1,050 feet high, exceeding M. Eiffel's masterpiece by nearly 100 feet; and, finally, there will be a miniature primeval forest, in which, says the Exhibition-man, "the visitor may hunt the fragrant wild flower, or the saucy chipmunk, and generally commune with Nature in its native haunts."

FAILURE OF A HAMBURG CINCHONA IMPORTER.—The failure has recently been made known of the firm of E. Richter, in Hamburg. The unsecured liabilities of the firm are said to amount to about 200,000*l*. The financial difficulties of the house are reported to have originated through its connections with the firm of Otto Richter (the late head of which was brother to the chief of the Hamburg house), of Peru and Bolivia, South America. Mr. Otto Richter was the principal cinchona planter in Bolivia and the chief grower of the "cultivated Bolivian Calisaya" bark which has been a feature of our cinchona auctions for many years. These plantations were commenced at the time when quinine had not yet reached its zenith, and it was an open secret that during the last two or three years the prices realised by the bark had not paid for its growing, harvesting and shipping. The firm also carried on an extensive trade in other South American products.

PRICES OF STAPLE GOODS.—An interesting return has just been published showing the comparative average prices of 45 principal articles of trade from 1867 to 1890. The figures are based upon the average prices of these articles during the years 1867–77, the number representing the general average then being 100. The following table shows the index number for 1890, and for several previous years:—

| | | | |
|---|---|---|---|
| 1867–74 | 100 | 1885 | 72 |
| 1873 | 111 | 1886 | 69 |
| 1881 | 85 | 1887 | 68 |
| 1882 | 84 | 1888 | 70 |
| 1883 | 82 | 1889 | 72 |
| 1884 | 76 | 1890 | 72 |

THE prices of sponges in Cuba have risen, owing to the passing of a law prohibiting the fishing for a time. This law has now been somewhat relaxed in Batabano, owing mainly to the misery suffered by hundreds of the sponge fishers; but it is still rigidly enforced in Caibarien. Messrs. Cresswell Brothers' agent in Havana has received a communication from the Government which leads him to hope that the prohibition will be withdrawn shortly for the remainder of this year for all the ports. The action of the Cuban Government could not have come at a more unfortunate time, for the prices of sponges of all kinds in the Mediterranean have since the winter fishery been higher than for several years past. The effect of the cheaper grades from Cuba coming into the market having hitherto been to keep down the prices of Mediterranean sponges, it is to be feared that the latter will still further advance in consequence of the aforesaid restrictions. The *Oil, Paint, and Drug Reporter* states that five of the leading dealers in Florida sheep's wool sponges in New York have entered into an agreement not to sell the goods hereafter below a certain price. As to the prospects of the combination continuing in force, it is stated that while the meeting at which the agreement was drawn up was proceeding one of the parties slipped out and sold a thousand pounds of the sponge at a cut rate, and that several days later another of the quintette also supplied a customer with a similar quantity at a low price. It was urged by those who had made these sales that, as the agreement had not been formally signed at the time, they had committed no breach of confidence.

ACID (CITRIC).—The market remains dull and languid at 1*s*. 7½*d*. to 1*s*. 7¾*d*. per lb., while the quotation for juice remains at 23*l*. 10*s*. f.o.b.

ACID (TARTARIC).—Very slow of sale at 1*s*. 2¾*d*. to 1*s*. 3*d*., according to brand.

ACONITE.—Eight bags Japanese root of fair quality were offered to-day, and sold at the previous price of 25*s*.

ALOES.—*Cape aloes* were not offered at to-day's auctions; a consignment, however, has arrived this week, and will probably be included in the next sales. Of *Curaçao* aloes, 380 boxes were placed in sale, of which 322 sold, partly with a reserve, at very low prices. For good red liver, 52*s*. 6*d*. to 55*s*. was paid; brown ditto realised 42*s*. 6*d*. to 45*s*.; fair dark brown, 32*s*. 6*d*.; fair capey, 11*s*. 6*d*. to 14*s*. 6*d*.; ordinary dull ditto, from 10*s*. down to 6*s*. 6*d*. per cwt. Of *East*

*Indian* aloes, 25 packages hepatic Zanzibars, in monkey skins, were offered, and sold at very full prices for the best lots; fair bright hard orange realising 97*s.* 6*d.*; hard and soft mixed colours, rathery stony and leafy, from 82*s.* 6*d.* down to 40*s.* per cwt.

AMBERGRIS.—Only 22 ounces, in two lots, were shown to-day, but there was no bidding whatever; dark and soapy quality of fair flavour is held for 50*s.* to 60*s.* per cwt.

ANISE.—Of *Star-anise*, 20 cases genuine China were sold to-day without reserve, and realised 97*s.* for sound, showing a decline of about 1*s.* to 2*s.* per cwt., this proves the article to be pretty well sustained. For arrival we do not hear of anything being offered.

ANNATTO.—Of 60 packages seed, 54 sold to-day, good bright, from Jamaica, 2⅓*d.* to 2½*d.*; ditto Ceylon, sound, 2¼*d.*; and damages from 2¼*d.* downwards to ¾*d.* per lb.

ANTIMONY.—Eighteen boxes crude Japanese antimony were offered to-day, and reported sold at 37*s.* per. cwt. Another parcel now landing is obtainable, we understand, at 34*s.* per cwt. Antimonial preparations have been reduced in price by the makers, who now quote *crocus*, lump, 56*s.*; powder, 59*s.* per cwt.; *Nig.*, lump, 40*s.* to 43*s*; powder, 42*s.* to 46*s.*; and *Pot. tart.* at 1*s.* 2½*d.* per lb.

ARAROBA.—The 36 cases recently imported were offered again to-day, but met with no inquiry; for the best lots, rather dusty, but fair colour, 2*s.* per lb. is asked, and 1*s.* 9*d.* for a less desirable parcel.

ARSENIC has somewhat declined in price recently; best white powder is now obtainable at 14*s.* 3*d.* per cwt.

BALSAM COPAIBA.—In Liverpool Maranham has changed hands at firm prices lately, 2*s.* 2*d.* to 2*s.* 4*d.* per lb. being the quotation. At to-day's auctions 1 cask of good clear thin Para balsam was shown. It is held for 2*s.* per lb. Stocks are small, but some arrivals have taken place this week.

BALSAM PERU.—Four tins offered to-day were partly sold at 5*s.* 6*d.* per lb.

BALSAM TOLU. — Twenty-two cases good quality, from Savanilla, are held for 1*s.* 4*d.* per lb.

BISMUTH.—Subiodide has been altered in price to 16*s.* 6*d.* per lb., and subnitrate to 8*s.* per lb.

BORAX.—Rather slow of sale, but maintained in price at 28*s.* for crystals and 28*s.* 6*d.* for powder. *Borate of Lime* has been in demand at high prices, 12*l.* per ton, ex ship *Liverpool*, for 42-per-cent. having been paid.

CALABAR BEANS.—Large arrivals in Liverpool have caused prices to recede to 4*d.* per lb., and a further fall is anticipated.

CALUMBA.—The market is sluggish; for a parcel of medium to bold root, very grey, 18*s.* was said to be refused; and another lot, good yellow colour, mixed sizes, slightly wormy, is held for 35*s.* per cwt.

CAMPHOR (CRUDE).—The spot market remains very firm and holders talk of 170*s.* per cwt. as the spot price, although we do not believe that over 160*s.* per cwt. has been paid. For Japan, near at hand, 140*s.* per cwt. is said to have been paid recently, but for more distant arrival, much lower prices have been and would still be accepted.

CAMPHOR (REFINED).—The market is fairly steady. English bells from the makers at 1*s.* 10½*d.* to 1*s.* 11*d.* per lb., according to quality, usual terms; German, 1*s.* 9¾*d.* per lb. net on the spot, but for May-June delivery 1*s.* 9¼*d.* per lb. would be accepted.

CANTHARIDES. — Without business. Three cases fair China flies, somewhat mouldy, were bought in to-day at 3*s.*, but there were no bids even at 1*s.* 6*d.* per lb.

CARDAMOMS.—The supply offered at to-day's auctions was moderate (109 packages, of which 65 were sold), but it consisted mostly of medium to fine qualities. For these grades the demand was very well sustained, and with keen competition prices rose fully 2*d.* per lb. *Ceylon-Mysore* sold as follows:—Fine bold pale, 3*s.* 11*d.*; medium ditto, 3*s.* 7*d.*; medium to bold, somewhat yellow, 3*s.* 6*d.* to 3*s.* 7*d.*; small to medium yellow, 2*s.* 6*d.* to 2*s.* 8*d.*; small size, 1*s.* 8*d.* to 1*s.* 9*d.*; medium long pale, 2*s.* 1*d.* to 2*s.* 4*d.*; small ditto, 1*s.* 4*d.* to 1*s.* 7*d.*; fair pale long small to medium, 1*s.* 9*d.*; small to medium brown, partly split, 1*s.* 4*d.* to 1*s.* 7*d.* Seeds sold somewhat cheaply at 1*s.* 9*d.* to 1*s.* 10*d.* per cwt.

CINCHONA.—A consignment of 100 packages *Guayaquil* bark sold to-day at an advance of ½*d.* to 1*d.* per lb.: Long thin mossy quill at 9½*d.* to 10*d.*, broken and stout ditto at 6*d.* to 7*d.*, and chips at from 5½*d.* down to 3*d.* per lb. Four cases *red* bark from Guayaquil realised 1*s.* 7*d.* per lb. for dull quill, partly split, and 8*d.* per lb. for very common; while 23 packages very bold, flat, damaged *Carthagena* (*viâ* Hamburg) sold at 6*d.* per lb.

COCAINE is reported dearer, and one of the German manufacturers now asks 22*s.* 6*d.* per oz. for hydrochlorate.

COLOCYNTH.—Thirty-three packages Turkey colocynth were shown, and all bought in; rather broken to fair pale apple at 1*s.* 2*d.* to 1*s.* 7*d.* per lb.

COPPER (SULPHATE).—Dull at 16*l.* 10*s.* to 17*l.*, according to quality.

COWHAGE.—For 4 tins fairly light, partly seedy mixed, from Bombay, 6*d.* per oz. is said to be the price.

CREAM OF TARTAR.—Dull of sale at 98*s.* to 98*s.* 6*d.* for best French white crystals; for powder 100*s.* is the quotation.

CUBEBS.—Sixty bales, partly direct import, were all bought in, rather dusty and stalky mixed berries at 10*l.* to 10*l.* 10*s.* per cwt, but no demand whatever was shown.

CUMIN-SEED.—For fair Malta 23*s.* is named as the price, offers of 21*s.* to 21*s.* 6*d.* per cwt. being refused to-day. A parcel of fine quality is held for 27*s.* per cwt.; 8 bags Mogadore are priced at 19*s.* per cwt.

EUPHORBIA PILULIFERA.—Five cases good flowery herb, in bundle, from Bombay, were all bought in at 1*s.* per lb., an offer of 2*d.* not being entertained.

GALLS.—A steady market for Turkey galls with sales of fair blue at 57*s.* per cwt. This variety is said to be rather scarce.

GAMBIER.—The market remains very firm, 23*s.* per cwt. having been paid for block on the spot.

GAMBOGE.—Of thirteen cases declared for sale, only six were shown, these all found buyers at full prices, 10*l.* 10*s.* being paid for slightly damp rather dull lump, and 9*l.* 7*s.* 6*d.* for damp and ricy ditto.

GUINEA GRAINS.—Business is reported at 35*s.* to 37*s.* 6*d.* per cwt. Stocks are very low.

GUM AMMONIACUM.—A small box, weighing 40 lbs., of old gum, good bright, bold almondy block, is held for 80*s.* per cwt.

GUM ARABIC.—A bid of 75*s.* was refused for some soft pale, rather dusty, Cape gum, and another parcel of 7 cases, also from the Cape, was bought in at 8*l.* 10*s.* for good pale frosted, but partly dusty, gum Four bales fair palish sorts were bought in at 10*l.* 5*s.* per cwt. A fair inquiry is reported to prevail for Ghatti, at about 40*s.* per cwt.

GUM BENZOIN.—Quiet; 6 cases Siam bought in, good colour small to bold almonds, partly blocky and dusty, of good flavour, at 15*l.*; dark woody and drossy ditto, at 7*l.* per cwt. Of Sumatra gum 7 cases sold at from 8*l.* 15*s.* to 8*l.* 17*s.* 6*d.* for good seconds white almondy centres, slightly false packed; and 8*l.* 5*s.* to 8*l.* 7*s.* 6*d.* for more false-packed ditto. Of so-called Penang gum 7 cases sold without reserve at high prices, 95*s.* to 97*s.* 6*d.* being paid for old seconds, fair almondy. One hundred and fifty-four cases Palembang were also sold without reserve, fair to woody and drossy thirds, at 38*s.* to 43*s.* per cwt.; ordinary resiny fourths at from 18*s.* down to 15*s.* per cwt. Forty-nine cases rubbish from Bombay, were bought in at 9*s.* to 10*s.* per cwt. nominally.

GUM ELEMI.—Fine qualities are exceedingly scarce, and prices more or less nominal. Five bags good white at auction to-day were bought in at 100*s.*, 90*s.* per cwt. being reported offered and refused; 10 cases of fair flavour, but very dirty, are held for 17*s.* 6*d.*; and 4 barrels low dark sold without reserve at 7*s.* per cwt.

GUM MASTIC.—Firm, but without much business. For some good pale grain, at auction to-day, 2*s.* 8*d.* per lb. is required. The Smyrna market on March 21 was still advancing, about 40 cwt. drop having changed hands at prices rising from 2*s.* to 2*s.* 2*d.* per lb.

GUM MYRRH.—Nothing of any consequence was offered to-day. Fifteen bales ordinary dark Aden sorts were bought in at 75*s.* per cwt.

HONEY.—Prices are slightly easier, for Jamaica honey of which 14 packages sold to-day at 35*s.* to 38*s.* for fair liquid brown, and 33*s.* to 36*s.* for darker ditto. A lot of good thick candied honey brought 39*s.* per cwt. For 27 cases good partly liquid, clean amber Californian, 42*s.* 6*d.* per cwt. is asked. Forty-eight tins Italian were bought in, 30*s.* being refused for a lot of exceptionally fine white. Sixteen barrels fair greyish Chilian were also bought in at 40*s.* per cwt. In Liverpool about 1,000 barrels Chilian honey sold during March at 25*s.* 6*d* to 42*s.* 6*d.* per cwt., according to quality. Californian has arrived rather freely, and a slight decline has been accepted to induce business.

INDIARUBBER.—The market is very firm, and sales are reported, of fine old brown Pará on the spot at 3*s.* 9*d.* per lb., but to-day there are sellers at 3*s.* 8½*d.* per lb. For May delivery 3*s.* 9*d.* per lb. has also been paid. In Liverpool the demand has slackened somewhat during the last few days.

INDIGO.—The market for East Indian indigo is generally quiet, but steady, and the transactions are of a somewhat limited character. Some business in Bengal indigo, of qualities below 5*s.* per lb., is reported at an advance of 3*d.* per lb. on the recent auction rates. The next auctions will commence on April 13, and are likely to consist of about 7,250 chests, against 10,000 in April, 1890. They will include 4,400 chests Bengal and Oude, 2,100 chests Kurpah, and small quantities of Madras, Bimlipatam, and Bombay.

INSECT FLOWERS.—The Trieste market is reported quiet but very firm, and prices have advanced since we last quoted them, the following being the current rates: closed flowers, 82*s.* per cwt.; half-open ditto, 76*s.*, open ditto, 70*s.* per cwt.; all c.i.f. Trieste. Powder, which recently sold at 10½*d.* per lb. c.i.f., is now held for 1*s.* per lb.

IODINE.—Quite unchanged, at 9*d.* per oz. for crude, and *Iodides* in proportion.

IPECACUANHA.—Thirty-four packages were offered to-day, and 13 of these sold at a decline of about 2*d.* per lb., as compared with last auction rates—sound root, fair, partly thin, 8*s.* 4*d.* to 8*s.* 5*d.* per lb.

IRISH MOSS.—The supply is almost exhausted, and for common grades, in second hands, 11*s.* 6*d.* to 12*s.* 6*d.* per cwt. has been paid.

JABORANDI-LEAVES.—The market remains dull, and beyond a sale of 15 bales at 6*d.* per lb. in Liverpool, lately, no business is reported.

JALAP.—A parcel of 7 bales, said to be fine quality, was announced for sale to-day, but no samples were shown, and it was bought in at 1*s.* 9*d.* per lb. It is said that 1*s.* 6*d.* per lb. is required for it. Bids of 1*s.* 4*d.* and 1*s.* 5*d.* per lb. are said to have been refused.

KOLA.—The Liverpool market is slow, and sales are comparatively unimportant. At to-day's drug sales, 2 bags good clean dried West Indian kolas sold at 7*d.* per lb., and 5 bags fair but somewhat mouldy African at 5¼*d.* per lb.

KOUSSO.—Two bales ordinary dusty loose flowers were bought in to-day, offers of 7*d* to 8*d.* per lb. being refused.

LIME-JUICE.—Twenty-six puncheons from Jamaica all bought in—good bright at 1*s.* 4*d.*, ordinary quality, much mixed with impurities, at 1*s.* 3*d.* per gallon.

MUSK.—Very slow of sale, and rather lower for third pile Tonquin, which was the only variety in which sales were effected. Of Tonquin pods first pile 29 caddies were all bought in, an offer of 81*s.* being refused for some exceptionally fine blue skin and under skin, small to bold pods, well-trimmed, and bids of 77*s.* and 78*s.* were declined for similar quality, but not so sightly, and somewhat damp; 3 caddies third pile partly spurious thin blue skin and under-skin, very damp, sold at 51*s.*; and an offer of 24*s.* is to be submitted for 4 tins ordinary dark and very wet third pile. No grain musk was offered.

MUSK-SEED.—9 boxes West Indian of good flavour were bought in at 6*d.* per lb.

NUX VOMICA.—In good demand at very full to somewhat dearer prices. 339 packages were offered to-day, of which 185 sold at 11*s.* to 12*s.* for fairly bold silky but rather brown from Colombo and Bombay.

OIL (CASTOR).—At to-day's auctions eighteen casks fair yellow Madras oil were shown, for which 3⅛*d.* per lb. is asked. Thirty cases fair Coconada seconds were bought in at 3¾*d.* per lb. The Liverpool market is exceedingly firm, with very small offerings either on the spot or for arrival. Business in good Calcutta seconds has been done on the spot at 3¼*d.* to 3$\frac{5}{16}$*d.* per lb. For first-pressure French oil, 3¼*d.* to 3$\frac{5}{16}$*d.* per lb. is asked. Mail advices from Calcutta, dated March 11, mention that a fairly strong demand prevails for shipment to United Kingdom and United States, but business remains restricted in consequence of the firmness of holders. The stock and production of oil remain small Seed has been arriving freely, and prices rule slightly easier.

OIL (COD-LIVER).—Very little business doing, and the market, if anything, slightly easier at 88*s.* to 90*s.* per barrel c.i.f. terms for new non-congealable.

OILS (ESSENTIAL).—*Citronella* remains unaltered on the spot for shipment, 11*d.* per lb. c.i.f terms is the lowest quotation. At auction 115 cases (in tins) were bought in at ¾*d* to ⅝*d.* per oz. *Lemongrass* oil steady on the spot at 1½*d.* to 1¾*d.* per oz.; for shipment there has been a slight advance in the price, 1½*d.* per oz c.i.f. having been paid this week, whereas 1$\frac{7}{16}$*d.* per oz. was the previous quotation. Of *Cinnamon* oil one case fair pale sold at 1*s.* per oz. to-day. *Cassia* oil slow of sale at 3*s.* 7*d.* to 3*s.* 8*d.* per lb. Of *Lime* oil 18 cases West Indian were offered and bought in. For good Dominica oil 1*s.* 7*d.* per lb. is asked.

OIL (OLIVE).—Eating oils firm, but unaltered, at 4*s.* 3*d.* to 6*s.* per gallon, according to quality. Cargo oils very firm, and in small supply. Mogadore oil is now quoted at 38*s.* to 38*s.* 6*d*, and Messina at 41*s.* 6*d.* to 42*s.* Spanish oils are very firmly held, and the available supply is exceedingly small; the quotations from Spain, however, are much above our parity.

OILS (VARIOUS).—*Cocoanut oil*: Ceylon oil is rather dearer at 30*s.* 3*d.* to 30*s.* 6*d.* for fine on the spot, and at 28*s.* 6*d.* for near delivery, c.i.f. terms; but distant shipment can be had for 27*s.* c.i.f.; Cochin oil maintained at 36*s.* on the spot, and 34*s.* c.i.f. *Cottonseed oil*: Not quite so firm; refined at 22*s.* 6*d.*; crude at 19*s.* 3*d.* to 19*s.* 6*d.* on the spot; the Liverpool quotation is 21*s.* 9*d.* to 22*s.* 3*d.*, according to quality; in Hull 19*s* 7½*d.* is asked for refined, and 18*s.* to 18*s.* 3*d.* for crude. *Linseed oil*: A shade weaker, 22*s.* 6*d.* to 22*s.* 7½*d.* on the spot; Liverpool steady at 23*s.* 6*d.* for export casks; the Hull quotation remains 21*s.* 1½*d.* for naked oil.

OPIUM.—The Smyrna market, according to advices dated March 21, was unsettled. The attempt to create a panic by reports of failure in the sowings and bad weather in the interior had failed to influence the principal buyers, who continued to maintain an attitude of strict reserve. The latest news from the growing districts was very favourable. The Smyrna market remained quiet, a few small sales only having been made.

ORRIS ROOT.—At to-day's drug-sales 10 bales Italian root, fair size, but somewhat off colour, were bought in at 90*s.* per cwt., an offer of 60*s.* per cwt. being declined.

PALM OIL has been in strong demand, and our quotation for fine Lagos is 27*s.* to 27*s.* 6*d.* In Liverpool there has been an advance of about 10*s* on the week, Lagos having been sold at 26*s.* 3*d.* ex ship, while in transit business has been done at 23*s.* to 26*s*, according to quality. *Petroleum*: Quiet and unchanged; American, 5$\frac{11}{16}$*d.* to 5⅞*d.*; Russian, 4⅞*d.* to 5*d.* per gallon. *Rape oil*: Firm at 30*s* for refined, and 28*s.* 6*d.* and 28*s.* 9*d.* for brown. In Liverpool the quotations are 34*s.* to 34*s.* 6*d.* for fine Stettin; 32*s.* 6*d.* for either French or English. *Turpentine*: Very dull of sale at 29*s.* 9*d.* for American oil on the spot.

PISTACHIO NUTS.—Twenty-nine bags Persian pistachios, just imported from Bushire, were offered to-day. They appeared to be of good fresh quality, and were all imported in shell; the whole parcel was bought in, suggestions of 10*d.* to 8*d.* per lb. for the best lots meeting with no response.

POTASH SALTS.—English refined *Saltpetre* is quoted at 21*s.* in barrels, and 22*s.* in kegs; German at 20*s* 3*d.* per cwt. *Bichromate* steady at 3¾*d.*; best Montreal potashes rather easier, with sales down to 27*s.* 6*d.* per cwt., ex-ship Liverpool. *Pearl ashes* also dull and nominal at 46*s.* 6*d* per cwt. *Chlorate* quiet. The Union's price remains at 5½*d*, but second-hand holders are offering at 5⅜*d.* to 5 7/16*d.* per lb. *Yellow prussiate* very scarce; English, 10¼*d.* to 10½*d.* per lb.

QUASSIA.—Arrivals are heavy, and the market rules easier. For fresh wood 5*l.* 5*s.* to 5*l.* 10*s.* per ton is the quotation, and for a parcel described as fine old wood, 6*l.* 10*s.* per ton would have been accepted at auction to-day.

QUICKSILVER.—The market has been very quiet this week, although it shows a somewhat firmer tendency at the close. The principal importers still quote 8*l.* 5*s.*, second-hand holders 8*l.* 3*s.* per bottle.

QUININE.—Very little business is reported, but we should call the market just a shade firmer. It is said that 2,000 oz. German bulk (B & S or Brunswick) changed hands privately at 18½*d.* per oz. since the holidays. At to-day's auctions, 5,000 oz. B & S brand in 100-oz. tins were offered—one lot was reported sold at 10½*d.*, but for the others no higher bid than 10¼*d.* per oz. was obtainable, and they were bought in.

RHUBARB.—One hundred and eleven packages were offered to-day, but the demand was entirely wanting, and with the exception of 17 packages, which sold without any quotable change, the whole was bought in. *Shensi*: Druggists' root, round small to medium, realised 1*s.* 8*d.* to 1*s.* 9*d.*; flat root, three-fourths pinky fracture, small to medium, part rough, 1*s.* 7*d.* to 1*s.* 8*d.*; round and flat mixed small to medium, slightly horny coat, half pinky, half grey fracture, 1*s.* 2*d*; pickings, 1*s.*; fair round Canton root, medium-sized, fair coat, 1*s.* 3*d.* per lb.

SARSAPARILLA.—Forty-six packages good grey Jamaica met with fair demand, and realised 1*s.* 1*d.* for sound, and from 1*s* 3*d.* down to 9*d.* for damaged root; for red Jamaica, good bright loose, 1*s.* 3*d.* to 1*s.* 4*d.* was paid; and 11 bales Lima Jamaica, all damaged, sold at 9½*d.* to 12*d* per lb.

SCAMMONY-ROOT.—Forty-nine bales were bought in at 35*s.* per cwt. In Liverpool there has been rather more inquiry, and about 100 bales are reported sold, partly at 28*s.* 6*d.* per cwt.

SENEGA.—A parcel of 10 bales showing good quality and flavour but very slightly mouldy, were partly sold at 1*s.* 9*d.* per lb., being a decline of about 2*d.* per lb.

SENNA.—Of 162 packages Tinnevelly, mostly second hand, about 70 sold, with good competition, at rather higher prices especially for the commonest qualities, ordinary rusty small to medium yellowish realising from 1¾*d.* down to 1*d.* per lb. Of 48 packages Alexandrian (Mecca) senna, very stalky mixed, 15, all damaged, sold cheaply at from 1¾*d.* downwards. Some Alexandrian pods were bought in at 2*s.* per lb.

SHELLAC.—No auctions have been held this week, but the market probably has been firm, and prices are somewhat higher. The business reported comprises fine orange, octagon B, at 82*s* 6*d*, and 8 inch double-triangle (worked) at 85*s* per cwt.; second orange at 63*s.* 6*d.* per cwt., cash terms; unworked garnet AC at 66*s*, rising to 67*s.*; and second button lac at 72*s.* The imports into London in March, 1891, were 5,497 cases, against 2,658 cases in March, 1890; the deliveries, 7,353 cases, against 4,466 cases. The stock on March 31 was 41,788 chests (33,290 chests orange, 2,345 garnet, and 6,153 button), against 49,113 chests on March 31, 1890. The shipments from Calcutta to the United Kingdom in March were 9,000 cwt., against 8,000 cwt. last year; and to the United States 5,200 cwt., against 9,100 cwt. last year. Calcutta mail, dated March 11, speak of a rather unsettled but generally firm market, with few sellers except at higher rates than buyers are willing to concede. According to some reports the Bysackee stick-lac-crop has been an unusually large one, while others speak of it as a complete failure.

SODA SALTS.—*Bicarbonate*, in kegs, is worth 7*l.* 10*s.* per ton. *Caustic*: in fair demand at 11*l.* 12*s.* 6*d.* for 70-per-cent. white, on the spot; crystals, 62*s* 6*d.*, ex ship. *Nitrate*: steady at 9*s.* 3*d.* to 9*d.* 9*d.* according to quality.

SPERMACETI.—A steady market, with sales at 1*s.* 6½*d* c.i.f. and 1*s.* 7*d.* per lb. London terms, for American refined Chilian has sold at 1*s.* 5½*d.* in Liverpool.

SPICES.—There have been no public auctions this week. Sierra Leone *Chillies* have sold in Liverpool at 50*s.* per cwt. Zanzibar *Cloves* are dull of sale, and about 1,000 bales have changed hands at 3 11/16*d.* c.i.f. for near at hand, and 3¾*d.* per lbs. c.i.f. for April to August shipment. Old African ginger is selling at 23*s.* 6*d.* per cwt. in Liverpool. Black Singapore *Pepper* has been sold on the spot at 4⅝*d.* per lb.; and white Penang at 5¾*d.* per lb. About 130 bags fair *Pimento* have changed hands at 2½*d.* per lb. for fair quality.

TEA.—There have been no public sales of China tea this week, but a fair trade has been done privately in Monings under 7*d.* at rather firmer rates, the terminal market quotations being also a trifle higher. There is a general feeling that in view of the strong statistical position the fall in the price of China tea during February and March was rather too rapid. A fair amount of Caper has changed hands, chiefly about 9½*d.*, 10*d.* showing full rates, but here again the visible supply is very small, and the market will not get relief from new season's teas for a couple of months. A very small Indian sale was held on Thursday, at which steady prices were paid for all lower grades. A heavy sale of Ceylon is advertised for Tuesday next, but the catalogues of Indian tea so far issued are not heavy.

WAX (BEES') remains very firm, and continues in strong demand. Of 16 packages Jamaica, one-half sold at 7*l.* 10*s.* to 7*l.* 15*s.* for good red to fine orange, and at 6*l.* 17*s.* 6*d.* to 7*l.* for red and brown. Mogadore wax is held at from 6*l.* to 6*l.* 5*s.* for fair quality; and for a parcel of two bags good colour, but rather wormy, Mozambique 6*l.* 10*s.* was refused, while an offer of 6*l.* 7*s.* 6*d.* was also declined for one case good mixed coloured Australian.

WAX (JAPAN).—Sales of good pale squares are said to have been made at 43*s.*, but that price could not be obtained at to-day's auctions.

## CHEMICALS IN THE NORTH OF ENGLAND.

A QUIET market for chemicals this week, little business having been done, owing to the holidays. Prices continue uniformly steady, the principal alteration being in *hyposulphite of soda*, which has been advanced 10*s.* per ton.

BLEACHING-POWDER continues firm at 6*l.* 12*s.* 6*d.* to 6*l.* 15*s.* per ton in softwood casks on rails at makers' works, and 6*l.* 15*s.* to 6*l.* 17*s.* 6*d.* f.o.b. Liverpool; hardwood casks quoted 7*l.* to 7*l.* 2*s.* 6*d.* per ton, f.o.b. Liverpool: Newcastle brands quoted 6*l.* 15*s.* to 7*l.* per ton for softwood, with 5*s.* per ton extra for hardwood, f.o.b. Tyne.

CHLORATE OF POTASH.—Quiet at 5 7/16*d.* to 5½*d.* per lb., prompt delivery at usual ports of shipment.

HYPOSULPHITE OF SODA.—A good demand for this article both for home trade and export; makers have advanced their prices, and 1-cwt. kegs are now quoted 7*l.* 10*s.* per ton, and 5-7-cwt. casks 7*l.* per ton net cash in large quantities f.o.b. Tyne, 7*l.* 10*s.* and 8*l.* per ton c.i.f. Liverpool, and 7*l.* 12*s.* 6*d.* and 8*l.* 2*s.* 6*d.* per ton delivered Manchester.

SODA CRYSTALS.—Quiet at 3*l.* 5*s.* to 3*l.* 7*s.* 6*d.* per ton on rails at makers' works, and 3*l* 7*s* 6*d* to 3*l* 10*s* per ton f.o.b. Liverpool; Tyne makes quoted 2*l* 16*s.* per ton f.o.b. Tyne, prompt delivery.

SULPHATE OF COPPER.—Quiet. For prompt delivery 16*l.* 10*s.* per ton is asked f.o.b. Liverpool.

SULPHATE OF SODA.—In rather better inquiry. Makers quote 2*l* 2*s.* 6*d* per ton in bulk, and 2*l.* 13*s* per ton ground and packed in casks f.o.b. Tyne, and 2*l.* to 2*l* 2*s* 6*d.* per ton in bulk free on rails at Widnes and St. Helen's.

# Correspondence

### Memoranda for Correspondents.

*Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.*

*Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.*

*If you send us newspapers, please mark what you wish us to read.*

*Ask us anything of pharmaceutical interest: we shall do our best to reply.*

*Before writing for formulæ consult the last volume, if you have it.*

*Letters, queries, &c., will be attended to in the order received.*

### Salicylate of Bismuth.

SIR,—I have just read your useful note on the above subject. It is quite correct that the salicylate of bismuth used in medicine must be the basic salicylate, otherwise decomposition with liberation of a large proportion of salicylic acid would result on coming in contact with water. I can hardly agree that the formula $Bi_2O_3.C_7H_5O_3$ is correct. The composition of the salt is more probably represented by the formula $Bi(OH)_2C_7H_5O_3$, which would yield 61·3 per cent. of oxide. The preparation ought certainly not to contain a large amount of uncombined acid; but it would be going too far, on the other hand, to condemn a sample because it gave up a small percentage to ether. Seeing that the basic salicylate is rapidly attacked by dilute hydrochloric acid, salicylic acid being set free, it would not appear to be of much importance physiologically that the salt contained a minute proportion of uncombined acid.

Yours very truly,

Edinburgh, March 31. D. B. DOTT.

### Australian Sandal-wood Oil.

SIR,—In your issue of the 28th ult. you published an article under the head of "Australian Sandal-wood Oil," in which you say, "the most notable point of difference between this oil and the official kind is in specific gravity, which is 0·963," but the "experience of distillers of East Indian wood goes to show that oil from that source has a specific gravity of at least 0·970." I beg to say that, in practice, we have found a difference of from three to five points between the specific gravities of the oils from young and full-grown wood. We have tried a series of experiments, and all our last shipments are of the specific gravity of 0·965 to 0·969.

You conclude by saying "it would be advantageous to have a hospital-trial made of it." I beg to assure you that it has been *thoroughly tested*, both in hospitals and by private medical men, in the Australian colonies. The oil passed through its experimental stages, and was highly approved of years ago, or it would not have been introduced here. I enclose testimonials from Mr. Joseph Bosisto, Melbourne (October 1, 1885), the Industrial and Technological Museum, Melbourne (October 9, 1885), and others, bearing out this assertion. Trusting you may find space in your highly-esteemed paper for the above,

Faithfully yours,

GEORGE SIMPSON,
Chairman
W. A. Distillery Co. (Lim.).

7 Fenchurch Street.
April 1.

### Colonial Exclusiveness.—A Home Thrust.

SIR,—I note in your issue of January 17 a complaint from Mr. F. T. Gibson, of 91 Gooch Street, Birmingham. This gentleman complains, under the heading of "Colonial Exclusiveness," that his son has been refused examination by the Pharmacy Board of New South Wales, on the ground that by their laws it is necessary that an applicant for examination must serve three years' apprenticeship in the colony previous to examination.

The Pharmacy Board of New South Wales must administer their law as it is laid down in their Statute-book, and are able to answer for their action in the matter.

What I object to is this heading, "Colonial Exclusiveness." I am a duly registered chemist in Queensland, but if it so happened that I wished to go home and enter into business, I am afraid I should be unable to obtain registration. In the colonies we admit duly-qualified British chemists on presentation of their credentials, with proof of their identity. It is, therefore, British impudence to talk of colonial exclusiveness, and we should be much to blame did we admit men to examination without knowing something of them.

We have no wish to be examining boards for British failures. I am not meaning anything here with regard to Mr. Gibson's case, but only speaking broadly. The colonies are, as it is, used quite sufficiently as a dumping-ground for British cast-off ne'er-do-weels and failures, without our undertaking to encourage it. Let the men be examined where they are trained and known, otherwise personation, &c., becomes easy. I remain, yours faithfully,

GEO. WATKINS,
Pres. Ph. Society,
Queensland.

P.S.—I should like to see a certificate from any duly constituted board, either British or colonial, make its possessor free in any place in the British dominions.

### The late Mr. H. Groves.

SIR,—Your interesting article on the late Mr. H. Groves would be read with deep interest and sympathy by numbers of English chemists who have held appointments in Italy. Kindly as it is written, it but faintly represents how generous, hospitable, and sympathetic he really was.

I did a little exploring round Naples with him in 1866. On coming back to England, in 1867, I called at Florence. Mr. Groves invited a few young Englishmen to meet me. On preparing to leave with the others, Mr. Groves told me to consider myself his guest during my stay, and I found that he had sent for my luggage from the hotel. To all young compatriots he was just an elder brother. His name brought forth an enthusiastic burst of admiration whenever mentioned, and he will ever live in the memories of those who had the good fortune to enjoy his friendship.

Yours faithfully,

Wigan, April 1. JOHN PHILLIPS.

### What is Meant?

There is nothing like unanimity of opinion regarding the perchloride of mercury solution. The following are a few of the replies:—

"WHAT is meant" is, I think, a solution to contain 7·7 grains if made by measure, or 7 grains if by weight, in each two teaspoonfuls (2 drachms), so as to give, when diluted as directed, a mercurial bath of the strength of 1 in 5,000. See that customer can measure exactly both solution and water for bath. A similar prescription is largely used here of the strength of 1 in 2,000, but always in the hands of a doctor or qualified nurse; the solution is sent out in special poison-bottles, with printed directions, and glass measure attached to stopper holding exactly 1 drachm.

EDINBURGH. (13/22.)

RESPONDEO sine dubio. Hydrargyri perchloridi gr. 3·84 (solve granum unum in aquæ ℥ 5,000 mitteque liquoris uncias quartuor).

Welwyn, March 28. EDMUND LAWRANCE.

CLEARLY that one teaspoonful in half a gallon of water gives a strength of 1 in 5,000; and inasmuch as 32 half-gallons contain 611,200 grain measures, there will require to be used 142¼ grains of mercury perchloride. The bath would thus have a strength of 1 in 2,500.

PHARM. HAND. (29|10.)

For several weeks past we have been dispensing an identical prescription from an homœopathic doctor in this town. We have first made liq. hyd. perchlor. 1 grain to ʒij. we have then used gtt. 48 to the 4-oz. bottle; this gives $\frac{2}{5}$ of a grain to the 4 oz, or very nearly 1 in 5,000. This is our view of what is intended.

Hastings. (13/48.)

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I should use $15\frac{9}{25}$ grains for the ℥iv. (c. a little glycerine). Prescriber evidently intends that this particular bath shall be a 1 in 2,500 one.

344 Caledonian Road, N. F. Kittow.

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*E. H.* (13/21) interprets the prescription as meaning 1 grain in 5,000, which he finds to be equal to $\frac{7}{20}$ grain of $HgCl_2$ in the 4-oz. bottle.

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*F. R.* (13/23) thinks there is no doubt that the prescriber means one teaspoonful (when diluted) = 1 in 5,000. Therefore, 437·5 × 40 ÷ 5,000 = 3·5 grains to ʒj., or 112 grs. $HgCl_2$ dissolved in ℥iv. water.

---

*I. O. M.* (13/13) sends us the following remarkable solution of the difficulty:—

1 minim is the measure of 0·9114533 grain of water—*i.e.* ·9114.

| | | |
|---|---|---|
| B.P. liq. hyd. per. | | |
| 10 grains in | .. .. .. | 20 oz. |
| 10 ,, | .. .. .. | 20 × 8 × 60 minims |
| 10 ,, | .. .. .. | 9,600 minims |
| 1 ,, | .. .. .. | 960 ,, |
| 1 ,, | .. .. .. | 960 × ·9114 grains of water. |
| 1 ,, | .. .. .. | 874·944 ,, ,, |
| (*i.e.*) 1 ,, | .. .. .. | 875 ,, ,, |

Divide 875 into 5,000, it goes practically six times, therefore the sol. hyd. per. ought to be ⅙ strength of the B.P.

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The balance of opinion appears to be distinctly in favour of each teaspoonful containing mercuric chloride sufficient to make half a gallon of a 1 in 5,000 bath. To our thinking this is correct. If one were making 5,000 oz. of such a bath, 1 oz of the perchloride would be used, and as 16 gals. = 2,560 oz.,

5,000 : 437·5 grs. :: 2,560 : 224 grs.

Or, taking the grain measure as the starting-point, the volume being half a gallon, or 35,000 grain measures, we arrive at the same figure—7 grains per drachm, or 224 grains to the 4-oz bottle. The fact that two teaspoonfuls of the solution are to be used each time does not affect the calculation. The prescription was a Glasgow one. We have printed a selection of replies simply to show how weak pharmaceutical arithmetic is.—Ed. *C. & D.*

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The following have been received since the foregoing was put in type:—

14/42. *S. J. C.* understands the quantity of hydrarg. perchlor. required for the 4 oz. to be 0·384 grain.

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14/4. *Reason* says the prescriber means that when ʒij. of the solution is added to half a gallon of water, the strength then is to be 1 in 5,000: so that ℥iv. of the concentrated solution will require $122\frac{22}{25}$ grains of hydrarg. bichlor.

---

Sir,—I say that the ℥iv. should contain 224 grains of hyd. perchlor., so that when ʒj. was added to half a gallon of water the bath would be of the strength prescribed—v.z., 1 in 5,000.

| | | |
|---|---|---|
| 1 lb. water | = | 7,000 grains |
| 5 lbs., or half gallon | = | 35,000 ,, |

That would require to contain 7 grains, and as 1 drachm contains 7 grains 4 oz. should contain 224 grains.

208 Stafford Street, Walsall, J. W. Bate.
April 1, 1891.

### Photography in Colours.

Professor Lippmann, whose discovery of a method of photographing in colours we described and illustrated in our issue of March 21, writes to thank us for the copy of the paper we sent him, and adds: "The article is very complete, but I can only regret the disparaging historical allusion at the end of it, which astonishes me. My apparatus has never been even thought of by any author before me."

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### Whitworth Bottle.

Sir,—As one who has known and sold "Whitworth bottle" for thirty years, I append my recipe:—

| | |
|---|---|
| Camphor .. .. .. .. .. .. | 6 oz. |
| Oil origanum .. .. .. .. .. | 6 oz. |
| Alkanet root .. .. .. .. .. | q.s |
| S.V. meth. .. .. .. .. .. | Oiv. |

It was so-called from the famous Whitworth doctors, who, thirty years ago and since, had a surgery within fifty yards of the shop in which I was apprenticed. We sold gallons of it; but whether it was the doctors' own recipe, or my employer's, I cannot say, as the doctors did their own dispensing.

*Note.*—It was called Whitworth bottle, not Whitworth's.

Yours faithfully,
Lancashire Lad. (12/59.)

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### Explosives.

Sir,—In the report, published in last week's issue, of the paper read by Mr. Weddell before the local Assistants' and Apprentices' Association, I erroneously mentioned "syphons of soda-water" as *explosives*. What Mr. Weddell said was: "That syphons of aërated waters, being always at hand in most establishments, formed most effective engines in cases of outbreak of fire. As extinguishers, they were all the more useful because always charged and ready for use."

Yours faithfully,
G. F. Merson, Hon. Sec.
Newcastle-on-Tyne Chem. Assistants' and Apprentices' Association.

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### A New Branch.

Sir,—I cut the following out of the *Evening Standard* of March 24:—

Money Lent.—Anyone requiring a strictly private temporary Loan (from 5*l.*), without the usual publicity and horrors of a loan office, should apply W. Dawson, wholesale chemist, 146 Fenchurch Street, E.C. No preliminary charges.

On looking at the directory I find at the above address "W. Dawson, financial agent," but no mention of "wholesale chemist." Yours,
H. W. (12/32.)

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## DISPENSING NOTES

*The opinions of practical readers are invited on subjects discussed under this heading.*

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### Iodide Mixture.

Sir,—Will you give me your opinion in next issue whether there is any decomposition in the following mixture, or if it is likely to be stable and keep well?—

| | |
|---|---|
| Pot. chlor. .. .. .. .. .. .. | ʒij. |
| Ferri amm. cit. .. .. .. .. .. | ʒij. |
| Pot. iodid. .. .. .. .. .. .. | ℈ij. |
| Ext. glycyrrh. liq. .. .. .. .. | ℥ij. |
| Aq. chlorof. ad .. .. .. .. .. | ℥xij. |

Yours truly,
Beta. (260/52.)

[Ferric salts are readily reduced by potassium iodide, iodine being liberated. The reaction does not generally take place with the scale-compounds, but, as this mixture

is feebly acid, the chlorate is acted upon with the result that iodine is liberated.]

### Incompatibles.

SIR,—Will you kindly oblige by informing me the correct way to dispense the following mixture, as I have had different results?—

| | |
|---|---|
| Tr. valerian. ammon. .. .. .. .. | ℥ss. |
| Tr. nuc. vom. .. .. .. .. .. | ʒiss. |
| Ferri quin. cit. .. .. .. .. .. | ʒiss. |
| Pot. iodid... .. .. .. .. .. | gr. xvj. |
| Aq. chlorof. ad .. .. .. .. .. | ℥viij. |

Yours truly,
KINO. (7/36.)

[This is altogether an unsatisfactory mixture. The ammoniated tincture precipitates quinine hydrate, of course, and without the ammonia we should still get an insoluble quinine salt—the iodide. The best plan is to dissolve the scale-salt in half the water, and add the tincture of nux and half an ounce of acacia mucilage to it. Dissolve the iodide in 3 oz. of the water, add the ammoniated tincture, and mix with the other solution.]

### Was there Substitution?

SIR,—The following prescription (by an eminent London physician) was handed in with instructions to prepare sufficient for a week. My client states that when in the London hospital the pills were less than half the size of mine, and had no smell. They were not coated. I dispensed asafœtida, B.P., gr. x., in 2 pills, of which two to be taken three times a day. MEECHING. (10/59.)

| | |
|---|---|
| Tinct. valerian. ammon. .. .. .. | ℥ss. |
| Aq. chlorof. .. .. .. .. .. .. | ℥j. |
| t. d. s. | |
| Gamm. asafœtid. .. .. .. .. | gr. x. |
| 2 pil. t. d. s. | |

### Carbolic Acid in Pill.

SIR,—What is the best way of making the following pills?—

| | |
|---|---|
| Acid. carbol. .. .. .. .. .. .. | gr. 12 |
| Ext. opii .. .. .. .. .. .. | gr. 2 |
| Bismuth. subnit. .. .. .. .. .. | gr. 36 |
| Ft. pil. xij. | |

Yours respectfully,
ZYMINE. (9/5.)

### Tr. Saponis et Picis.

Sir,—Will you or one of your numerous subscribers kindly give me formula for tinct. saponis et picis?

Yours faithfully,
TIQUAM. (11/4.)

[Is it the preparation consisting of equal parts of soft soap, tar, and spirit that is meant in this case?]

## LEGAL QUERIES.

155/13. *Caledonia.*—It is not a Revenue offence to make and sell lin. saponis, lin. camph. co., lin. belladonnæ or lin. aconiti with methylated spirit, nor to mix any of these with other ingredients. But it might be held to be an offence against the 15th section of the Pharmacy Act, 1868, to use any such liniment in a physician's prescription, as the British Pharmacopœia does not authorise the employment of methylated spirit. No such authority attaches to the formulæ of the B.P.C. It is possible that the sale of "soap liniment" made with methylated spirit might be construed as an offence against the Sale of Food and Drugs Act, but the Inland Revenue authorisation and the general custom would be strong points of defence.

13/70. *C. J. B.*—We think it doubtful whether the medicated wool which you propose to sell would be regarded by the Board of Inland Revenue as a "chemical or official preparation," bringing it within the general charge of duty. Your label would undoubtedly render the article liable unless it can escape on the ground we have intimated. You had better send a labelled sample to Somerset House for an opinion.

13/35. *Subscriber.*—Every registered medical practitioner is entitled to carry on business as a chemist and druggist under the Pharmacy Acts, 1868 and 1869.

## MISCELLANEOUS INQUIRIES.

*Correspondents who ask replies to be inserted "this week" or "next week" are reminded that we do not guarantee replies, and that their insertion depends upon the space at our disposal for such matters. It is generally impossible for us to find room for queries the same week they are received.*

*A large number of correspondents ask us for formulæ and other information already published in this journal. It is not fair to more careful readers that we should frequently repeat such information, and so long as the back numbers containing the formulæ or replies required are in print we must decline to do so. Back numbers of our weekly issue can be obtained from the publisher at 4d. each.*

*Correspondents who have made inquiries regarding the following subjects will find the information in the numbers indicated.*

8/51. *Ernst.*—Consult our last Educational number.

12/63. *A. J. M.*—**Asthma powder.**—See *C. & D.*, December 6, 1890, page 798.

12/45. *Graph.*—For the ingredients, see *C. & D.*, April 5, 1890, page 482. As to the Ink, a correspondent takes us to task for recommending one with 75 per cent of spirit in the solvent. One with as much water is better, he says, as the more spirituous one "runs" on the paper—some kinds of paper. A drachm of aniline violet, the same of spirit, and six drachms of water are proportions which we have also used.

259/60. *J. E. M.*—**Poultry Spice.**—See *C. & D.*, May 3, 1890, page 615.

8/30. *Composition.*—Soda ash is the essential ingredient in some **Boiler-incrustation Compounds.** To this you may add 10 per cent. of any tanning extract.

8/9 *Francais.*—Time and a razor are the best stimulants for the moustache. Do not blister your lip. An abnormalty of that kind never feels like the real thing.

8/16. *Sauce.*—You will find several formulæ for **Sauces** in the last two volumes. Here is another:—

| | Oz. |
|---|---|
| Indian soy .. .. .. .. .. .. .. | 3 |
| Mushroom ketchup.. .. .. .. .. | 20 |
| Tarragona port .. .. .. .. .. | 4 |
| White pepper, in powder . .. .. .. | 1 |
| Shallots .. .. .. .. .. .. .. | 4 |
| Capsicum .. .. .. .. .. .. .. | ½ |
| Bruised cloves .. .. .. .. .. | 1 |
| Vinegar .. .. .. .. .. .. .. | 10 |

Macerate the white pepper, shallots (sliced very fine), capsicums, and cloves, add the vinegar, for seven days. At the end of this time throw the whole into an evaporating-pan, boil for ten minutes, strain through a hair sieve, and replace the strained liquor in a pan; add to it the India soy and ketchup, and boil for ten minutes. When cold add the wine.

10/70. *F. Armstrong.*—No certificate is given to candidates who pass the Preliminary examination. It is, strictly speaking, only a part of the Minor examination.

BURROUGHS, WELLCOME & Co. LIBRARY No.

8/19. *Veritas.*—(1) It is a gutta-percha that is used for the cement, not vulcanised indiarubber. (2) A mixture of oil of bay with other perfumes in a spirituous menstruum is generally used as Hairdressers' Spray. Try the following:—

| | |
|---|---|
| Oil of bay | 1 drachm |
| ,, cinnamon | 5 minims |
| ,, cloves | 5 ,, |
| ,, lemon | 10 ,, |
| ,, citronella | 6 ,, |
| Spirit | 6 oz. |
| Acetic acid | 3 drachms |
| Water to | 10 oz. |

Mix, and colour, if desired, with cochineal or caramel.

9/6. *Pulvermacher.*—Dilute acetic acid, we presume.

9/46. *Potassium.*—Permanganate of Potash Solution keeps indefinitely if you are careful to keep organic matter, such as cork, out of contact with it. Paraffin your corks, or insert a bit of "G. P. Tissue" between the cork and the bottle.

7/32. *H. C.*—It is advisable, when fitting up a Dark Room for Amateurs, to allow the same to be used for changing plates free of charge, as this operation usually takes about ten minutes, and entails no expense on the owner except the oil or candle burnt during this time. For developing plates it is usual to make a small charge of 6*d.* or 1*s* whether chemicals are supplied or not, and this is supposed to cover about an hour. When ready, you should forward your name, address, and terms, with a list of plates and sizes you keep, to the editors of "The Amateur Photographer," 1 Creed Lane, Ludgate Hill, E.C., who will enter it on their register, and send cards of introduction to tourists when in your vicinity.

8/2. *Ferrum* writes:—I had occasion to make 15 oz Liq. Ferri. Pernit. some time ago. The solution appeared to me to be dark in colour, but after keeping a week or ten days I found a large precipitate occupying about half of the bottle, with a much lighter-coloured liquid at the top—*i.e.*, the ordinary colour of Liq. Ferri. Pernit. It has also an odour of uncombined nitric acid. Is it safe enough to use, or is my experience exceptional? [This is an old-standing objection to this solution. The quantity of acid prescribed by the Pharmacopœia is barely sufficient to convert the whole of the iron into ferric nitrate, and the consequence is that a portion of the iron is precipitated. An additional 3 drachms of nitric acid has been found to obviate this result. Some prefer to, and do make the solution by dissolving an equivalent amount of freshly precipitated ferric hydroxide in nitric acid. This solution is perfectly stable.]

10/4. *A. P.*—Roscoe's "Chemistry" (Macmillan, 4*s.* 6*d.*) is a safe book to begin with for organic chemistry; Miller's is preferred by some. Gerrard's "Pharmacy" (H. K. Lewis) may suit you for the rationale of B P. processes.

9/67. *Jam.*—We do not know any good one.

9/32. *Enamel.*—A coat of dead black followed by one or two coats of varnish is what is used for enamelling wood. We have not published any formulæ for black enamel for wood.

*Inquirer.*—The initials R.D S. are used by many chemists and others to imply registered dental surgeon.

259/45. *Junior.*—We do not recollect the formula, and without more definite particulars it would be difficult to find it.

259/47. *W. H. S.*—Mixtures of alcoholic preparations with water generally deposit up to a certain point, but the deposition is partially prevented by the addition of glycerine. The matter deposited is sometimes inert, and most probably is so in the case of your mixture. You should set it aside for fourteen days, occasionally shaking, before filtering. You do not give us the quantities, which are a material point in giving a reply.

259/51. *Verax.*—Vegetable black is, we understand, finely-ground wood charcoal.

246/18. *A. W. C.*—The Soluble Oil which you send us as of German manufacture and as used for finishing cotton goods, is simply an aqueous solution of soft-soap.

256/59. *Beta.*—The dextrin appears to be somewhat highly dried, a fault not uncommon with this substance. The old sample no doubt contained more water. You might try the unpowdered dextrin, suitably modifying the formula.

13/1. *C. T.*—Lavender Salts.—Fill the bottle with clear pieces of carbonate of ammonia, and to each drachm so used add half a drachm of the following mixture:—

| | Drachms |
|---|---|
| Oil of lavender | 2 |
| Alcoholic ammonia | 1 |
| Rectified spirit | 17 |

12/70. *Enquirer* (Calcutta).—The colouring-matter in oily inks is not intended to be dissolved, but to remain suspended. If you wish to dissolve the colour (aniline), you must use spirit and water, and thicken with glycerine. We shall give further particulars about the inks shortly.

12/69. *J. B.*—Carbolic Tooth-powder.—The loss of odour in this is probably as much due to combination of the acid with chalk as to evaporation of the acid. Finely-sifted kieselguhr would be a better basis, and is perhaps used in Calvert's preparation.

1/23. *Phosphate.*—We cannot find a formula for you, and have never had an opportunity of analysing a specimen of the article. Wherein lies your difficulty in obtaining the green colour?

1/70. *Vox.*—The Draught for Gripes in cattle which you send us is composed of tincture of Indian hemp, ether, extract of liquorice, and water. The following appears to be the proportions for each dose:—

| | |
|---|---|
| Ether | 1 oz. |
| Tincture of Indian hemp | 6 drachms |
| Liquid extract of liquorice | 3 ,, |
| Water | 8 ozs. |

Mix.

14/16. *W. L. C.*—The paper you refer to can be obtained from Messrs. Eyre & Spottiswoode, East Harding Street, London, E.C.

259/52. *S. P. Q. R.*—(1) See reply to "Graph." (2) The preparations are mainly composed of spirit of tar. Send us a sample when you have an opportunity. (3) Veterinary books are published by the makers of proprietary medicines. You might also ask Mr. F. E. Johnson, chemist, Halesworth, for a copy of his "Farmers' Annual," which is very suitable for distribution.

9/31. *A. Lucas.*—Turnip seed is non-poisonous, and might be added to horse powders, if the taste is not objected to.

10/30. *Nemo.*—(1) Twenty-four ounces obviously, calculating from the quantity of strychnine. (2) This correspondent sends us the following recipe for **Scurf Cream** to improve upon: it appeared in the *Bazaar*:—

| | |
|---|---|
| Ol. amygd. dulc. .. .. .. .. .. | ℥ij. |
| Liq. ammon. .. .. .. .. .. | ℥j. |
| Ol. tereb. æther. .. .. .. .. .. | ℥j. |
| Ess. cassiæ .. .. .. .. .. | ♏ 50 |

We do not care to attempt to improve upon this; we should prefer to start afresh with other ingredients. See the article on "Dandruff" which we recently printed. (3) One part of powdered boric acid to 3 parts of French chalk make a good **Powder for the Feet.** (4) "Will you tell me," "Nemo" next asks, "how to calculate the quantity to be added to a liquid to reduce it to a certain specific gravity—*e.g.*, how much water is required to reduce 4 oz. of a liquid s.g. 1·5 to s.g 1·25?"—*Answer*: The difference between the water (lighter liquid) and 1·25 (required s.g.) is 0·25, which represents the volume of the heavier liquid to be taken. The difference between the heavier and the required s.g. —1·5 and 1·25—is also 0·25, which represents the volume of water to be taken—that is, 4 oz. of each.

10/38. *Atlas* sends us a sample of a **Hardening Liquid** used by brewers for hardening water for beer-brewing. It is sold at about 3*s.* per gallon. This liquid contains half its bulk of a suspended white powder, and our examination of it shows that the preparation is made by adding a soluble sulphate to a solution of calcium chloride. A pound of the Pharmacopœial calcium chloride, and 24 oz. of Epsom salts, each dissolved in half a gallon of water, and mixed would do.

10/14. *Weed.*—(1) You may get a copy of "The Art of Pharmacy," or the DIARY containing it, by advertising in the "Exchange" column. (2) **Sweet Pepper for Birds** is the fruit of *Capsicum annuum*, and allied species. There ought to be no difficulty in getting it. (3) We do not know what is meant by Jew's peppermint in the Hartz mountains.

12/37. *J. A. H.*—You say that you have tried three of the advertisers in the DIARY, but there are at least seven who advertise the bottles. When you have tried all, and failed to get what you want, we may insert a note under "Information wanted."

10/34. *Thus*—A solution of bird-lime is satisfactory for **Sticky Fly-papers.** You may also try gum thus, 4 oz.; olive oil, 1½ oz., or a sufficiency; honey, 1 oz. Melt and mix.

9/10. *J. H. D.*—The **Foot-rot Powder** which you send us is composed of powdered sulphate of copper and soot. A trace of oil of citronella appears to be added to disguise the odour of the soot.

9/16. *Hydrat.*—**Chutney:**

| | |
|---|---|
| Curry powder .. .. .. .. .. .. | 8 oz. |
| Apples .. .. .. .. .. .. .. | 6 lbs. |
| Tamarinds .. .. .. .. .. .. | 3 lbs. |
| Mustard seed, bruised .. .. .. .. .. | 2 oz. |
| Salt .. .. .. .. .. .. .. | 8 oz. |
| India soy.. .. .. .. .. .. .. | 1 lb. |
| Cayenne pepper.. .. .. .. .. .. | ¾ oz. |
| Garlic .. .. .. .. .. .. .. | 1 oz. |
| Sultana raisins .. .. .. .. .. .. | 2 lbs. |
| Powdered ginger .. .. .. .. .. | 2 oz. |
| „ mace .. .. .. .. .. .. | ½ oz. |
| Tomatoes (pulp and juice) .. .. .. | 3 lbs. |
| Vinegar .. .. .. .. .. .. .. | 6 pints. |
| Treacle .. .. .. .. .. .. .. | 1 lb. |
| Water .. .. .. .. .. .. .. | 1 pint. |

Peel and core the apples, weigh out 6 lbs., and place in an enamelled pan; add the tamarinds, tomatoes, raisins (chopped or minced), garlic (minced), mustard seed, cayenne pepper, curry powder, vinegar and water. Boil together for twenty minutes, and pass through a coarse sieve. Set aside in a jar for fourteen days, keeping well covered, and stirring once a day. Now place the pulp in the enamelled pan, and add the treacle, soy, salt, ginger and mace, and boil for half-an-hour, or until it is of the consistency of treacle, then pot.

10/69. *Heron.*—**Water-softening Powder** is made of slaked lime 1 part, and dried carbonate of soda 2 parts.

11/6. *B. L. B*—Read Bentley's "Structural and Morphological Botany" (Churchill, 7*s.* 6*d.*). We are not able to advise you what bookseller in Leeds to patronise: your master can do that.

9/21. *E. G. B.*—**Spiritus Saponis Kalinus (Hebra):**

| | Part |
|---|---|
| Soft soap .. .. .. .. .. .. | 1 |
| Rectified spirit .. .. .. .. .. | 1 |
| Spirit of lavender .. .. .. .. .. | 1 |

All by weight. Mix.

10/50. *County Chemist.*—(1) **Cod-liver Oil Emulsion:**

| | |
|---|---|
| Powdered tragacanth .. .. .. | 24 grs. |
| Yolks of two eggs | |
| Hypophosphite of calcium.. .. .. | 48 „ |
| Hypophosphite of sodium .. .. .. | 48 „ |
| Glycerine .. .. .. .. .. | 1 oz. |

Rub all these together in a mortar. Add in their order, and in the proper manner for making an emulsion:

| | |
|---|---|
| Orange-flower water .. .. .. | 2 oz. |
| Cod-liver oil .. .. .. .. .. | 24 „ |
| Oil of bitter almonds .. .. .. | 15 minims |
| Oil of cinnamon .. .. .. .. | 25 „ |
| Chloroform .. .. .. .. .. | 10 drops |
| Saccharin, 5 grains, dissolved in— | |
| Jamaica rum .. .. .. .. .. | 5 oz. |

Make up to 36 fluid oz. with orange-flower water.

(2) **Veterinary White Liniment:**—

| | |
|---|---|
| Vitelli .. .. .. .. .. .. | xij. |
| Sapon. moll. .. .. .. .. .. | ℥vj. |
| Ol. terebinth. .. .. .. .. .. | ℥xx. |
| Liq ammon. fort. .. .. .. .. | ℥v. |
| Acid. acetic. .. .. .. .. .. | ℥iv. |
| Camphoræ.. .. .. .. .. .. | ℥vj. |
| Spirit .. .. .. .. .. .. | ℥viij. |
| Ol. succini rect. .. .. .. .. .. | ℥iv. |
| Aquæ ad .. .. .. .. .. .. | Oiv. |

Rub the soap gradually with 10 oz. of water to form smooth jolly; add the spirit with the camphor dissolved in it; mix the turpentine and the oil of amber; add gradually to the mixture, stirring assiduously the while, and aiding emulsification by the occasional addition of a little water. Then add the ammonia. Now transfer to a Winchester, add gradually the acetic acid diluted with a pint or more of water; add the eggs one by one, well shaking all the time, and finally make up to 80 oz. with water.

The acetic acid may be omitted, and if this is done a perfect liniment is obtained.

12/1. *J. S A.*—There is nothing exactly of the nature you indicate. That is why the matter was dealt with in last year's DIARY.

12/11. *Dispenser.*—It is impossible to produce sulphide of zinc by mixing solutions of sulphates of potash and zinc.

## Information Wanted.

[*Replies to the following requests are solicited by correspondents of* THE CHEMIST AND DRUGGIST.]

11/11—Artificial jujubes made of glass: where obtainable?

259/71. Makers of tin showcards with raised letters.

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| | By 6-doz. case. | 12-doz. case. | 24-doz. case. | |
|---|---|---|---|---|
| **In Dispensing Bottles—containing 8 oz. fluid** | - 5/9 | 5/6 | 5/3 | doz. to a/c. |
| | By 3-doz. case. | 6-doz. case. | 12-doz. case. | |
| " " " 16 oz. " | - 10/6 | 10/3 | 10/ | " |

CARRIAGE FREE.

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| Sulphate of Soda | trace |
| Chloride of Sodium | ·035 |
| Moisture | ·82 |
| Insoluble | nil |

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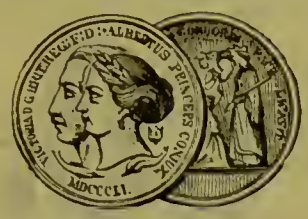

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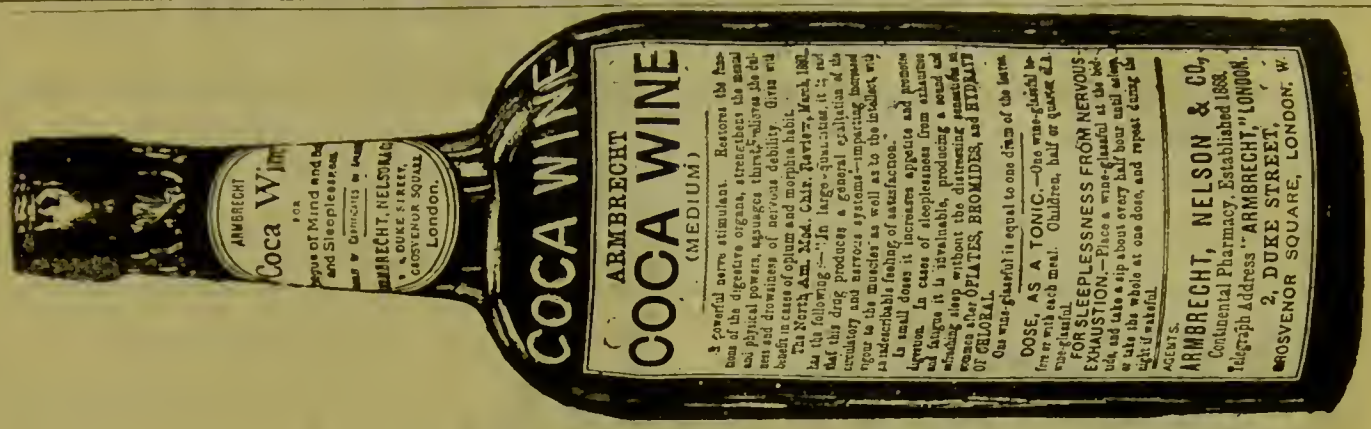


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**An Invitation** Is given to all Chemists who stock Guy's Tonic to kindly communicate the fact to the Guy's Tonic Company, 4 Ludgate Circus, London, as a Register of Local Agents is in course of preparation. This List is being compiled to enable the Secretary to send accurate replies to the inquiries constantly being made by direct postal purchasers from all parts of the country for the names of Local Agents.

Write to-day. A Post Card will do.

## PURE TARTAR EMETIC.

**PURE OXIDE OF ANTIMONY.**

Showing 98 per cent. of anhydrous $Sb_2O_3$.

This product is obtained BY A NEW PROCESS, and is offered at VERY ADVANTAGEOUS PRICES.

**POULENC FRÈRES,**

92 Rue Vieille du Temple, PARIS.

*Grand Prize, Universal Exhibition, Paris, 1889.*

SPECIALITIES—

**OLIVE OIL** (Cream White),

**OLIVE MACHINERY OIL,**

Dry Oranges, Orris Root, Juniper Berries, Honey (White), Sulphur (Sublime), Essence of Lemon, Essence of Bergamotte,

**ACETIC ACID, CHEM. PURE,**

CORKS OF EVERY DESCRIPTION,

**LEGRAND'S IRON DRUMS.**

*Samples and Quotations on application.*

**FELIX BERGER, 7 Mark Lane, LONDON, E.C.**

Telegraphic Address—"POLITICS LONDON."

## EADE'S

CELEBRATED

## GOUT

AND RHEUMATIC

## PILLS.

THE SAFEST and MOST EFFECTUAL CURE for

**Gout,**
**Rheumatism,**
**Rheumatic Gout,**
**Lumbago,**
**Pains in the Head Face, and Limbs, &c.**

They require neither confinement nor alteration of diet, and in no case can their effect be injurious.

Prepared only by GEORGE EADE, 72 Goswell Road, London, and sold by all Chemists, in bottles, 1*s.* 1½*d.*; three in one, 2*s.* 9*d.*

## UNG. EMOLLIENS (ELTON & CO.)

*AN IDEAL OINTMENT BASIS.*

UNG. EMOLLIENS is prepared expressly for the *Medical Profession*, and will be found to far surpass in therapeutic value any previous preparation of the kind brought to their notice.

**Ung. Emolliens Antiseptica** (Elton & Co.)

Prepared by the same special process of manipulation as the UNG. EMOLLIENS, but medicated by combination with a new and specially prepared basic and antiseptic Salt of Zinc and other approved remedies.

The following skin diseases may be mentioned, in which it has proved a most valuable and certain remedy:—Pruritus Ani, Eczema, Acne Rosacea, Erythema, Herpes, Impetigo, Psoriasis, Scurvy, Erysipelas, Urticaria, Prurigo, Tinea-Versicolor, or any other irritation of the epidermal surface.

It is perfectly miscible with all fats, oils, and waters, and may be dispensed with any other medicament the physician desires to use in addition to its present constituents.

Prepared only by the Proprietors, Messrs. ELTON & Co., 28 Endsleigh Gardens, N.W.

*Sole Wholesale Agents:—*

**H. GILBERTSON & SONS, 11 St. Andrew's St., London, E.C.**

## FREDK. BOEHM,

Billiter Square Buildings, LONDON.

ESSENTIAL OILS.
POMADES. PERFUMES.
FLORAL WATERS.
OTTO OF ROSE.
FRENCH CASTOR OIL.
PETROLEUM JELLY. MINERAL OIL.
SOAP, AND CONFECTIONERS' COLOURS.

PRICES ON APPLICATION. [2

# WITHOUT A RIVAL!

From the time Medicine was first discovered by the Ancients down to the present none ever made such progress as

# BEECHAM'S PILLS.

They stand without a rival, and have by far the largest sale of any Patent Medicine in the World. This is a fact which every business man is bound to admit.

All Foreign Dealers will find BEECHAM'S PILLS the most Saleable Medicine in the Market.

The health-restoring and life-giving properties of these Pills are such as to increase their demand every yaer.

The words "BEECHAM'S PILLS, SAINT HELENS," are on the Government Stamp affixed to each box.

**Prepared only and sold by the Proprietor, THOMAS BEECHAM, ST. HELENS, LANCASHIRE, ENGLAND, in boxes at 1s. 1½d. and 2s. 9d. each, with full instructions for use.**

NOW BEING LARGELY PRESCRIBED BY THE MEDICAL PROFESSION. OBTAINABLE DIRECT FROM CONSIGNEES OR WHOLESALE HOUSES.

## PEPSINUM CONC. "LANGEBEK."

ONE PART OF THIS PEPSIN DISSOLVES 635 PARTS FIBRIN.

Sole Consignees for the United Kingdom,
G. J. R. PARKES & CO.
196 BELSIZE ROAD,
KILBURN, N.W.
And 28 CIRCUS ROAD,
St. JOHN'S WOOD, N.W.
WRITE FOR PAMPHLET.

# BARRON, HARVEYS & CO.

## GILTSPUR STREET, LONDON, E.C.

Beg to inform their friends and the Trade generally that, having purchased the Business of

## BARRON, SQUIRE & CO., BUSH LANE,

and also the various Formulæ of the Special Preparations of

## JAMES BASS & SONS, HATTON GARDEN,

they are prepared to execute orders for the same, and pledge themselves to supply them in all their integrity.

*Specimens of these Preparations have remained in the Museum of Kew Gardens during 23 years without deterioration.*

41

# SHIRLEY'S

# A1 MENTHOL CONES & OTHER SPECIALITIES!

FIRST OF ALL, a few words on the question of **"ORIGINALITY."**

**WHO** has done the most to create the trade in **MENTHOL CONES?** Has not the **A1 BRAND** led the way? Therefore, as the Proprietor of the A1 Brand, I feel perfectly justified in supplying Cones in any shape or form in which they may be introduced, seeing that all Patterns I have myself put on the market have been studiously copied by others.

## BOXWOOD PATTERNS.

| No. | | | |
|---|---|---|---|
| 8P. | 6d. | Acorn, on foot | 3/3 doz. |
| 103B. | 4d. | Pedestal | 2/6 „ |
| 113R. | 6d. | Reversible | 3/6 „ |
| 111. | 1s. | Acorn, on foot | 6/6 „ |
| 112. | 6d. | Draughtsman | 3/3 „ |
| 17F. | 1s. | „ | 5/- „ |
| 9CR. | 1s. | Reversible | 4/6 „ |
| *6. | 6d. | Pedestal | 3/3 „ |
| *14L. | 1s. | „ | 6/3 „ |
| *17S. | 6d. | Draughtsman | 3/9 „ |
| *17FP. | 1s. | „ | 5/6 „ |

* These Patterns have directions *printed* on the Boxwood.

No. 40.

**THE WATCH SHAPE,**

Which is really a Draughtsman modified and made flatter. 3/3 doz.

Special Prices to Wholesale Buyers.

The Charming China Figure JUSTICE given away with 40/- order assorted Cones.

## CHEAPER PATTERNS.

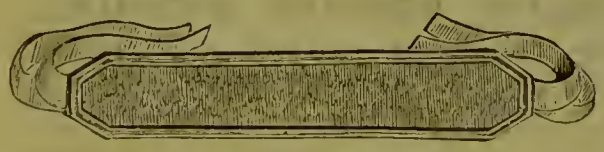
| No. | | | |
|---|---|---|---|
| 110V. | 1d. | Vase shape, 3 doz. on card | 7/- gross. |
| 110P. | 1d. | Pedestal „ „ „ | 7/- „ |
| 114. | 2d. | Vase, varnished „ „ | 14/- „ |
| 114P. | 2d. | Pedestal „ „ „ | 14/- „ |
| 115. | 3d. | Flat shape „ 2 doz. on card | 20/- „ |
| 109. | 4d. | Willow Pedestal | 2/6 doz. |
| 117. | 6d. | Large „ | 3/3 „ |
| 118. | 6d. | Lighthouse shape | 3/- „ |

**NEW 15/- CASE.**

Anyone ordering 15/- worth of Cones, assorted, other than 1d., is presented free with a most attractive folding Counter Case, with glass front.

HANDY AND PRETTY.

## NEW SEASON'S LOOFAH GOODS.



| | | | |
|---|---|---|---|
| No. 112. | GLOVE, Loofah and Coloured Turco | 5/6 | dozen |
| „ 116A. | „ „ „ White Turco | 4/6 | „ |
| „ 116C. | „ „ „ Coloured Canvas | 4/6 | „ |
| „ 130. | BELT „ „ „ Turco | 9/9 | „ |
| „ 125. | „ „ „ „ „ larger | 12/3 | „ |
| „ 124. | „ „ „ Rough Turco | 12/- | „ |
| „ 129. | „ Loofah both sides | 9/6 | „ |

## BEFORE BUYING SMELLING BOTTLES, CHINA BOTTLES, TOILET BOTTLES, ODORATORS, &c.,

**CALL OR WRITE FOR PRICES AND SAMPLES.**

A large quantity to select from.

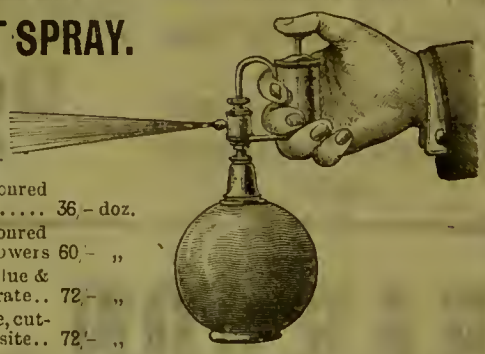
New Patterns constantly added.

### GOOD 1/- SPRAY.

| | | |
|---|---|---|
| No. 41.—Assorted Coloured Glass, ribbed, ball on top | 8/6 | doz. |
| „ 42.—6d. Spray, assorted Colours | 4/3 | „ |
| „ 43.—6d. „ „ „ ribbed | 4/3 | „ |
| „ 44.—9d. „ „ „ „ | 6/- | „ |

## NEW CORNET SPRAY.

Being the only one with Pump principle which can be held and worked with one hand.



| | | |
|---|---|---|
| No. 47.—Assorted Coloured Crackled Glass | 36/- | doz. |
| „ 48.—Cream Coloured Opaque, with Flowers | 60/- | „ |
| „ 49.—Globe shape, Blue & Gold, very elaborate | 72/- | „ |
| „ 50.—Diamond shape, cut-glass, most exquisite | 72/- | „ |

### SPECIAL LINE.

No. 1.—Double Ball, Opaque Blue Glass, Pink and Gold Flowers, 28/- doz.

## TOOTH SOAP.—A1.

Splendid 6d. line on Easel Card. Sells at sight. 3/9 doz.

**WHEN ORDERING SPECIFY A1 BRAND.**

## CARBOLIC TOOTH POWDER.—A1.

Very attractively got up in Tin Boxes.

| | | | |
|---|---|---|---|
| ¾-oz. | 2/2 | 6 doz. | 1/11 doz. | 12 doz. 1/9 |
| 1 „ | 3/- | „ | 2/9 „ | „ 2/6 |
| 1½ „ | 3/6 | „ | 3/3 „ | „ 3/- |
| 3 „ | 5/- | „ | 4/9 „ | „ 4/6 |

## SHAVING A1 CREAM.

In Collapsible Tubes, attractively carded.

4/- doz.

## A1 BABY SOOTHERS.

| | | |
|---|---|---|
| 4d.—Bone Ring, Polished Seamless Teat | 2/4 | doz. |
| 6d.—Bone Ring, Polished Seamless Teat | 3/6 | doz. |

1 dozen on a Card.

# ETIENNE FRÈRES' PERFUMERY.

EXQUISITE PERFUMES, ATTRACTIVELY GOT UP.

| | | |
|---|---|---|
| 6d., in Cut Stoppered Bottles, tied with Silk Bow | 4/ | doz. |
| 6d., ½ oz. Round Essence, with Sprinkler | 3/9 | „ |
| 6d., „ „ „ corked and capped | 3/6 | „ |
| *1s., in 1 oz. Cut Stoppered Bottles, Lundborg shape | 8/ | doz. |
| 1s., in 2 oz „ „ „ „ | 13/ | „ |
| 1s., in 4 oz. „ „ „ „ | 24/ | „ |

* If 3 dozen of this series be ordered, Chemists' own name can be put in full.

SAMPLE 1d. TUBES, 3 or 6 doz. on card, 8/ gross. 2d. TUBE, 2 doz. on card, 15/ gross.

Perfume in Bulk, double ..... 7/ 20 oz.; Triple ..... 10/ 20 oz.

# ARTHUR W. SHIRLEY, 55 FARRINGDON ROAD, LONDON, E.C.

# BARCLAY & SONS, Ltd.

SPECIAL AGENTS FOR

## ARTAUD'S Concentrated FLORAL EXTRACTS.

The Oldest House in Grasse!!! Established A.D. 1703!!!

The following Perfumes are in stock in 5-oz., 10-oz., and 20-oz. Bottles (Artistically Labelled):—

| | | |
|---|---|---|
| White Lilac. | Jockey Club. | Opoponax. |
| White Heliotrope. | Frangipani. | Wood Violet. |
| Lily of the Valley. | Jasmin. | Ylang Ylang. |
| White Rose. | Heliotrope. | Stephanotis. |
| Ess. Bouquet. | | Wallflowers. |

We respectfully suggest a Trial Order to test the very special merits we claim for the above. Per lb., 9/6; per 5 lbs., 9/-.

95 FARRINGDON STREET, LONDON, E.C.

Established upwards of a Century.

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Telegrams—
"LINT LIVERPOOL."

# LINT.

MANUFACTURERS OF

FLAX, & COTTON,

THE

## LIVERPOOL PATENT LINT CO.,

MARK ST. MILLS,

NETHERFIELD ROAD NORTH,

LIVERPOOL.

## LINTS,

ABSORBENT, AND CARDED

## COTTON WOOLS,

ABSORBENT, OPEN WHITE, and GREY

## BANDAGES,

SURGEON'S, AND CARBOLIZED

## TOW.

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# LINT.

## GAMGEE TISSUE.

(PATENT ABSORBENT GAUZE AND COTTON WOOL.)

## ABSORBENT COTTON WOOL.

*ROLL BANDAGES.*

ANTISEPTIC DRESSINGS.

# ROBINSON & SONS,

COTTON SPINNERS AND MANUFACTURERS OF

## SURGEONS' LINTS, COTTON WOOLS,

BANDAGES, & ANTISEPTIC DRESSINGS,

## WHEAT BRIDGE MILLS,

NEAR CHESTERFIELD.

Depot—55 Fann Street, Aldersgate Street, London.

TRADE MARK.

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# FRANK WOOD

(From W. WOOD & SON, MANCHESTER),

## 42 BELVOIR STREET, LEICESTER.

| | | | |
|---|---|---|---|
| Trusses, Single... | 12/6 per doz. | Elastic Stockings, Cotton | 2/2 each. |
| „ Double | 20/- „ | „ „ Silk | 3/4 „ |
| „ Single Femoral | 17/- „ | Suspenders, Cotton Bags | 6/6 per doz. |
| „ Double „ | 28/- „ | „ Silk Bags | 14/- „ |
| „ Single Scrotal | 34/- „ | Clinical Thermometers | 25/- „ |
| „ Double „ | 52/- „ | Elastic Gum Catheters | 7/6 „ |

TERMS—5 per cent. discount Cash; 2½ per cent. discount Monthly.

Dr. ZIEMER'S
# ALEXANDRA-DENTIFRICE.

Matchless for the Teeth, Gums, and Breath!

Guaranteed Non-injurious to the Enamel.

*Of all Wholesale Houses.*

Prices:
1/3 size 9/-
2/ ,, 15/-
3/6 ,, 24/-
per doz.

*Show Cards &c., forwarded on application.*

B. W. Ziemer & Co.
143 Cannon St., LONDON, E.C.

# H. P. TRUEFITT'S SPECIALITIES FOR THE HAIR.

Floral Extract, 3/6, 5/-, 10/6, 21/-
Egg Julep, 2/-, 4/-.
CONCENTRATED Egg Julep, 2/6, 5/-, 10/6.
Golden Fluid, 10/6, 21/-.
EUXURON, 1/6.
&c.

Stimulating Lotion, 5/- 10/6.
Astringent and Tonic Lotion, 5/-, 10/6.
Quinine and Arnica Hair Wash, 3/6, 5/-, 10/6, 21/-.
Arnica Wash 3/6, 5/-, 10/6.
&c.

## EUCHRISMA.
Combines in one clear Fluid every valuable Component both of a Hair Grease and Wash, 3/6, 5/-, 10/6, 21/-.

## EAU RACINE.
For renewing the original colour of Grey Hair; superior to all other Restorers, being perfectly simple in its Components. Price 6/-

An elegant Preparation for the Hair and Beard.
Price 2/6, 3/6, 5/-, 10/6, 21/-.

# BRILLANTINE.

## H. P. TRUEFITT'S TONIC TOOTH BRUSH
(BY ROYAL LETTERS PATENT.)
PRICE ONE SHILLING.
20 & 21 Burlington Arcade; 13 & 14 Old Bond St., London.

# E. C. Z. A.

## THE NEW SKIN SOAP,
MADE ONLY BY
## BAYLEY & CO., 17 COCKSPUR ST., LONDON,
THE SOLE AND ORIGINAL MANUFACTURERS OF
"ESS. BOUQUET" PERFUME and of the Celebrated "SPERMACETI SOAP TABLET."

This old-established and celebrated preparation for the Teeth is attractively put up in the form of Liquid, Powder, and Paste, is now being largely advertised to the public.

THE GENUINE
## EAU DE BOTOT
IS THE ONLY DENTIFRICE APPROVED
By the Academy of Medicine of Paris.

| | Size | Size | Size |
|---|---|---|---|
| Eau de Botot | 1/6, 11/9; | 2/6, 20/; | 5/, 32/9 doz |
| Powder | 1/, 8/6; | 2/6, 17/ doz. | |
| Paste | 1/, 8/6; | 2/6, 17/ ,, | |

Of all Wholesale Houses.

SAMPLE BOXES, Containing Powder, Paste, & Liquid per 8/- doz.

*N.B.—See each Article has the Signature—* M. G. Botot

IMMENSE SALE.
## WOODS' ARECA NUT TOOTH PASTE,
As used and recommended by Madame Marie Rose, the Prima Donna.
PRICE, 6d. and 1s. per Pot.
CAUTION.—SEE "WOODS, PLYMOUTH," ON EACH POT.

BURROUGHS, WELLCOME & Co.
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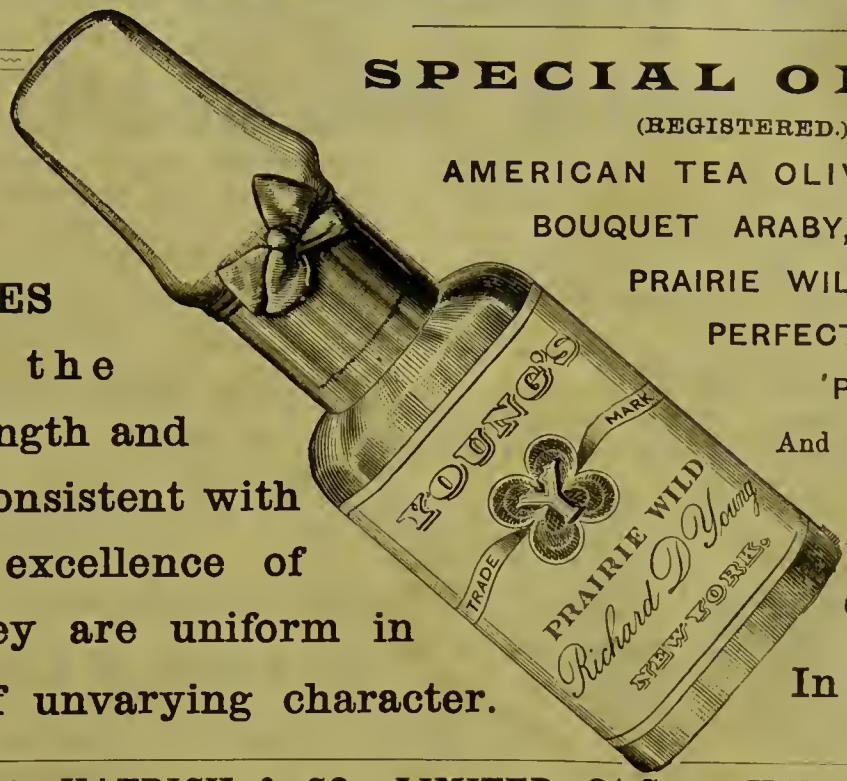
No.

# RICHARD D. YOUNG'S
# HIGHEST CLASS AMERICAN PERFUMES.




## SPECIAL ODORS.

(REGISTERED.)

AMERICAN TEA OLIVE,
BOUQUET ARABY, LILY BELLS
PRAIRIE WILD. MELAURA.
PERFECT VIOLET,
'PURITAN ROSE,
And the usual staple assortment.

YOUNG'S PERFUMES combine the greatest strength and endurance consistent with the highest excellence of quality. They are uniform in merit and of unvarying character.

OF ALL WHOLESALE HOUSES.

In 1-oz. & 2-oz. bottles. [2]

European Depot—HATRICK & CO., LIMITED, 31 Snow Hill, LONDON, E.C.

# R C TREATT

Dunster House Mincing Lane
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IMPORTER OF

## Musk Civet Ambergris Attar-of-Rose

ESSENTIAL OILS

Wholesale and Export only.

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# WHITE AND SOUND TEETH.

## JEWSBURY & BROWN'S
# ORIENTAL TOOTH PASTE.

This old-established and increasingly favourite Dentifrice has been over Sixty Years before the Public; It is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by

**JEWSBURY & BROWN, Chemists, MANCHESTER,**

and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered. Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwarded on receipt of address cards and directions for enclosure.

# R. H. BARRETT,

**Flint Glass Bottle Works,**

**THE OVAL, CAMBRIDGE HEATH, LONDON, E.**

For Beauty, Cheapness, and Efficiency R. H. BARRETT'S

## WATCH SMELLING-SALT BOTTLES

EXCEL ALL OTHERS IN THE MARKET.

The Caps are all fitted with INDESTRUCTIBLE WASHERS, to resist the action of Ammonia and retain the strength of the Salts.

Price, assorted white and coloured, 10/6 per gross (in 5-gross lots).

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered.

Telegraphic Address—"FOREFRONT LONDON." [1]

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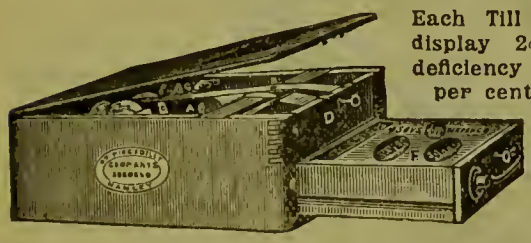
STOKES'

## PATENT CHECK TILL SYSTEM.

A SOUND INVESTMENT.



Each Till has only to display 2*d.* per week deficiency to return 15 per cent. on outlay.

**30,000** Sales Checked for **3 SHILLINGS.**

*Terms and full particulars on application.*

**G. R. STOKES & CO.,** Limited, Hanley, **STAFF.**

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## CRYSTAL BLUE TINTED BOTTLES.

HANDSOME COLOUR AND CLEAR GLASS.

3 and 4 ounce ... 9/- per gross.
6 and 8 „ ... 10/- „
Plain or Graduated.

Mineral Water Bottles, all kinds, at lowest market prices.

## I. ISAACS & CO.

GLASS BOTTLE MANUFACTURERS.

25 FRANCIS ST., TOTTENHAM COURT ROAD,

**LONDON.**

BANKERS: LONDON AND WESTMINSTER BANK.

ESTABLISHED UPWARDS OF 50 YEARS

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## CHALMERS' PATENT SAMPLE AND PARCELS POST BOX.

# THE ONLY BOX

That fulfils ALL the requirements of the POST OFFICE.

Is fastened INSTANTLY.
Cannot open by accident.
Is immensely strong.
Has no corners.
No seams, joints, nor solder.
Nothing to scratch or tear letters.
Is practically air-tight:—Is used for Flour, Cherry Blossom, Sanitas, and Soap-Powders.
Dispenses with string, bags, and paper.
Saves 19 minutes out of 20.

**OVER 300,000 SOLD.**

*SAVING THEIR OWN COST.*

**W. B. CHALMERS,** 37 MINCING LANE, E.C.

# SHOP FITTINGS.

We beg to call the attention of the Trade to this department of our business. We are in a position to tender for same to suit every description of shop, or any measurements, and can guarantee them to be of the very best workmanship.

## SHOW CASES, &c.

Of every description, for full particulars of which see Prices Current.

## SHOP ROUNDS, LABELLING, ETC.

Estimated for and undertaken at Customers' own shops if desired.

The following gentlemen, having recently had their shops refitted throughout, can be referred to as to the quality of work :—

Mr. VERDON, Stockport.
„ HAMNETT, Manchester.
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„ T. A. STEAD, Freshfield.
„ A. ALLAN, Inverness.
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„ A. E. SLINN, Nuneaton.
„ H. B. PARE, Bedford Leigh.
„ W. HAMPSON, Bedford Leigh.
„ JAMES TAYLOR, Eccles.
„ WM. WALKER, Manchester.
Mr. T. B. DAVIES, Rock Ferry.
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„ WITHERS, Blackpool.
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„ ROBT. LEES, Wicklow.
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# EVANS, SONS & CO., LIVERPOOL.

LONDON:
EVANS, LESCHER & WEBB.

CANADA:
EVANS & SONS, LIMITED.

# NEW CAPSULING MACHINE

The only Machine which leaves no crease or pleat on the Capsule.

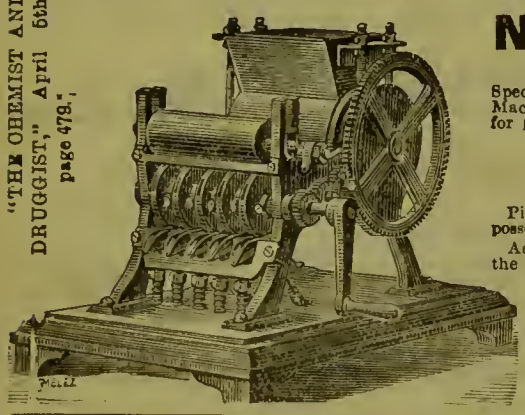
Can be fixed to any Counter. A single pull of the lever is sufficient to fix the Capsule.

**Patentee—C. MELIN, 37 Crutched Friars, LONDON, E.C.**

MAKERS OF ALL KINDS OF

## MACHINERY for the MANUFACTURE of PHARMACEUTICAL PREPARATIONS.

"THE CHEMIST AND DRUGGIST," April 6th, page 478.



## N. PALAU & CO., 43 Avenue du Maine, PARIS.

Special Mills or Laboratories, Mortar-mills, Sifting-machines, and Grinding-machines. Pill-making Machines, Silvering-machines, Coating-machines, Pill-printing Machines. Sugar-coating Pans. Machines for preparing and for cutting Pill-masses. Machines for manufacturing Lozenges. Machines for making Pearls and Gelatinous Capsules. Laboratory Presses, Mixing-machines, &c.

## PILL COATING & PRINTING.

Pill-printing has long been considered a luxury, and remained in the hands of a Paris house, which alone possessed a proper coating process.

As a matter of fact, the coating was the unique difficulty to the extension of the process. This no longer is the case, and we are in a position to offer our clients communication of a means of coating pills. This coating serves as a protection to the substances composing the pills; also, it is absolutely soluble in the gastric juices, and a clear impression is obtained by printing.

The coating effectually protects the pills from alteration from whatever cause, in any climate or temperature. It is less costly than silver or sugar coating.

Thus, by our means, pill and granule printing has become quite practicable. It gives a superior appearance to the goods, besides which the printed inscription has the advantage of advertising the manufacturer's name, or of indicating the nature of the active principle.

# UNRIVALLED!!!

New Method for

## BOXMAKING (Round & Square)

IN

CARDBOARD, PULP, &c.

**PATENTED 1891.**

TRADE MARK.

The Machines can be seen at work at

## T. REMUS

Tabernacle St. & Castle St., LONDON, E.C.

FULL PARTICULARS ON APPLICATION

# G. B. KENT & SONS

Have been awarded the ONLY

A.D. 1777.

GOLD MEDAL

At the Paris Exhibition, 1889, for

## ENGLISH BRUSHES

*See pages* 169–172 *WINTER ISSUE, January* 31*st*, 1891.

THE BEST HOUSE IN THE TRADE FOR DRUGGISTS' SUNDRIES, &c.

PRICE LIST POST FREE TO ANY PART OF THE WORLD ON APPLICATION.

## TIDMAN & SON, 19 & 21 Wilson Street, LONDON, E.C.

PROPRIETORS OF TIDMAN'S CELEBRATED SEA SALT.

3-lb. Boxes, per dozen, 5/4; 7-lb. Boxes, 10/9; 14-lb. Boxes, 19/9; 28-lb. Boxes, 35/10; Cardboard Packets, each sufficient for a bath, in Boxes of 12 Packets, 12/3 per dozen Boxes; White Linen Bags, each sufficient for a Bath, 3 dozen in a Box, 8/3 per gross.

SPONGES, SURGICAL APPLIANCES, PERFUMERY, COSMETICS, &c., &c.

Discount 5 per cent. for cash with order, or if remitted by 15th of month following that in which goods were supplied.

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# WILLIAM TOOGOOD'S

## WAREHOUSE AND SHOW ROOM,

### BURLINGTON BUILDINGS,

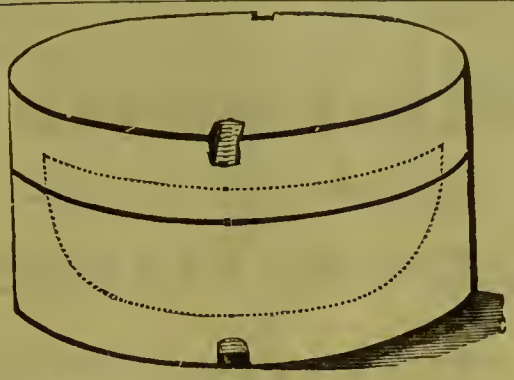
## HEDDON STREET, REGENT STREET, LONDON, W.

**TOOGOOD'S**

IMPROVED PATENT

## EARTHENWARE COVERED POTS

Are claimed to be the most perfect and convenient yet offered to the Trade.



*Owing to the increasing demand for our Patent Pots, we have introduced a Special THIN Series for Dispensing.*

*These Pots are beautifully glazed and finished, and, being very light, are specially adapted for sending by post.*

ORDINARY THICKNESS—

| 1 dr. | 2 dr. | ½ | ¾ | 1 | 1½ | 2 | 3 | 4 | 6 | ounces. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1/6 | 1/6 | 1/6 | 1/8 | 1/10 | 2/ | 2/3 | 2/10 | 3/6 | 4/6 | 5/6 per doz. |

THIN FOR DISPENSING—

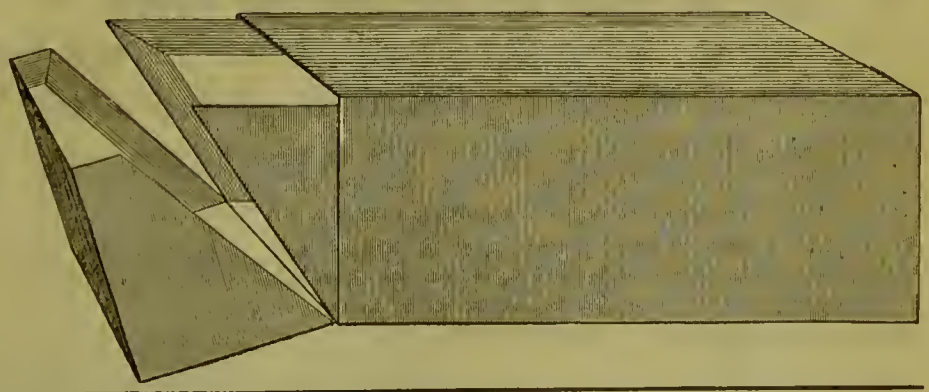
| ½ | ¾ | 1 | 1½ | 2 | 3 | 4 | 6 | 8 | ounces. |
|---|---|---|---|---|---|---|---|---|---|
| 1/7 | 1/9 | 2/ | 2/2 | 2/5 | 3/ | 4/ | 5/ | 6/ | per doz. |

## TOOGOOD'S NEW REGISTERED SLIDE BOXES FOR POWDERS, &c.

REGISTERED No. 154,622.

**PRICES.**

| | For 6 | 12 | 18 | 24 Powders |
|---|---|---|---|---|
| White Enamel | 6/9 | 7/9 | 8/9 | 9/9 gross |
| Purple ... | 7/9 | 8/9 | 9/9 | 10/9 „ |



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FOR PACKING LINSEED MEAL, JUJUBES, &c. Demy size, 6/6 ream.

## TOOGOOD'S PATENT BRONCHITIS AIR KETTLE,

51/- per dozen. [2]

## SOLE AGENT FOR DR. LEE'S STEAM DRAFT INHALERS.

# CARBOLIC ACID.

Liquid, Crude and Refined, Crystals (Detached and Glacial, B.P.).

**SPECIALITY.**—Our Refined Liquid Carb. Acid is a bright pale colour, guaranteed **97** per cent. to **99** per cent., and free from all impurities, such as Sulphuretted Hydrogen, &c.

**CONTRACTS FOR 1891.**—We shall be pleased to submit very lowest prices for delivery during 1891 to large Buyers. State approximate quantities required.

**CARBOLIC POWDERS.**—**5** per cent. to **20** per cent., from **£6** per ton. Pink, White, or Grey Colours. Pink ditto, in large black and gold tin boxes, **1/-** sizes, **4/6** per dozen; **1/6** sizes, **6/-** per dozen.

**CREOSOL OR SANITARY FLUID.**—Half usual prices. Samples and quotations on application.

**BUY FROM THE MAKERS—THE CHEAPEST HOUSE IN THE TRADE.** [2]

HAMILTON & CO., LTD., The Sovereign Chemical Works, WANDSWORTH, LONDON, S.W.

LONDON, 1884.

# CARBOLIC DISINFECTANTS

LONDON, 1884.

**BEFORE ORDERING ELSEWHERE** write for detailed Price Lists and Samples of

## POWDERS, ACIDS, FLUIDS, SOAPS, &c.

TO

# ADAMS, WEBSTER & CO.

Wholesale & Export Disinfectant Manufacturers, **HACKNEY, LONDON, N.E.**

# PETROLEUM JELLY,

**PARAFFINUM MOLLE B.P.**

(PIONEER BRAND) Registered Trade Mark.

Equal to and Cheaper than **VASELINE.**

FOR MEDICAL AND PHARMACEUTICAL PURPOSES.

White, Yellow, Veterinary, and Waterproof. All kinds put up in 1-lb., 5-lb., 7-lb., 14-lb., 28-lb., and 56-lb. Patent Tins, and in 300-lb. Barrels.

Pure Castor Oil, Cod Liver Oil, White Mineral Oil, Best Eating Olive Oil, Pale and Crude Carbolic Acid, Carbolic Powders. Sheep Dip, Benzine 50 per cent. and 90 per cent., Crude and Rectified Spirits of Tar, Stockholm Tar, Camphor Ice, Carbon Candles.

PATENT

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**THE NEW AND POPULAR DISINFECTING POWDER.**

*SEND FOR SAMPLES AND PRICES TO*

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FINEST ORANGE WINE FOR QUININE.

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CARBOLIC & GLYCERINE SOAP in ¼ lb. TABS

FREE FROM POISON AGREEABLE IN SMELL.

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IN 1, 2, 4, 8 & 12 GALLON DRUMS.

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QUOTATIONS & SAMPLES FREE ON APPLICATION.

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SEE THEIR PRICE LISTS.

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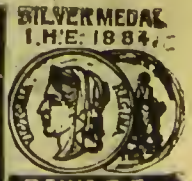

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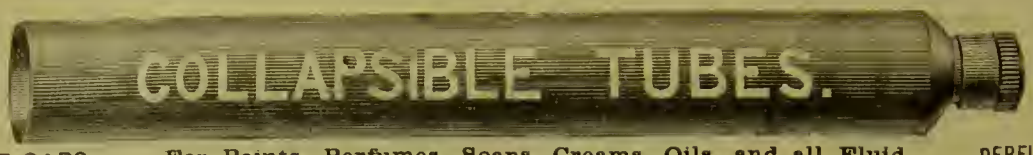


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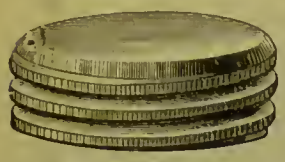

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[4]

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Recommended by Medical Men

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A REAL COMFORT

Warm, Soft, and Dry, Easily Washed, Clean, and Durable.

They Prevent Chills in Bathing, and keep the feet warm and comfortable. Mr. GLADSTONE pronounces them to be *very useful*, and Lord SALISBURY and many of the Nobility and Gentry now use and appreciate them. They prevent cold feet in Driving, in Church, in the Counting-house, in Stone-floored Apartments. *Numerous testimonials to their usefulness in a great variety of ways.* Sizes: 1 ft. square to 20×45 in. Prices: 3/. 5/. 7/6, and 10/6 each. Special Mats up to 21/ each. Of all leading Chemists and Furnishing Houses.

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"STIPENDUM" CORK STOPPERS, in all sizes.
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IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly fitting lids, are practically unbreakable, and the only article really answering the purpose intended.

*The following Analytical Report should be noted by the trade:—*

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"We have examined the two covered pots marked November 21, 1890, one containing strong nitrate of mercury ointment, and the other iodine ointment, the object being to discover—(1) Whether the ingredients of which the pots are composed have in any way affected the ointments; (2) Whether the pots have been deteriorated by the action of the ointments.

We hereby certify that no trace of any of the ingredients of the pot can be discovered in either of the ointments, and further that the pots themselves were found not to have been acted on at all; and we further consider 'Stipendum' admirably adapted for such pharmaceutical preparations.

Signed, C. T. KINGZETT, F.I.C., F.C.S.
(Ex Vice-President Society of Public Analysts).
R. H. HARLAND, F.I.C., F.C.S.
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We wish to draw the attention of Chemists to the excellence of the spirit we supply for pharmaceutical purposes. We have devoted great care and attention to this branch and have made it a leading line.

That our efforts in this direction have been appreciated is proved by the number of *unsolicited* testimonials we have received from nearly every town in the country, of which the following is a specimen:—

GENTLEMEN,— The Pharmacy, Morecambe.

Please send 5 gall. 56 o.p. as before. I have pleasure in saying I have always found your spirit answer all tests, which is more than I can say of all I have had from different places, and also to be practically free from odour.

Messrs. Stephen Smith & Co. Yours faithfully, JOSH. N. CUTTS, B.Sc., F.C.S.

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**SPECIALITY FOR PERFUMERY.**

This pure grain spirit, which has been thrice rectified and filtered through charcoal, is being largely used in making high-class Perfumes.

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**and Methylated Spirit**

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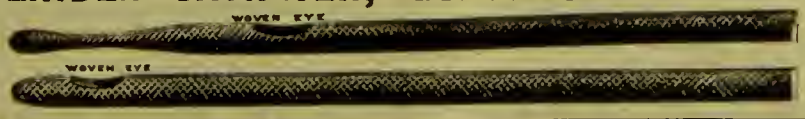


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In 2-lb. cakes, in cases of about 130 lbs.
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" oz. cakes in 2-lb. parcels in cases of 54 lbs.

**W. H. B. PURE WHITE.**

In round cakes in 2-lb. parcels, or in oblong cakes, loose } In cases of 54 lbs and 56 lbs.
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Plain blocks of 7½ lbs. in cases of 250 lbs.

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A CERTAIN CURE.

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SECOND-HAND SHOP FITTINGS BOUGHT, SOLD and EXCHANGED.

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ONE SHILLING PER BOX.

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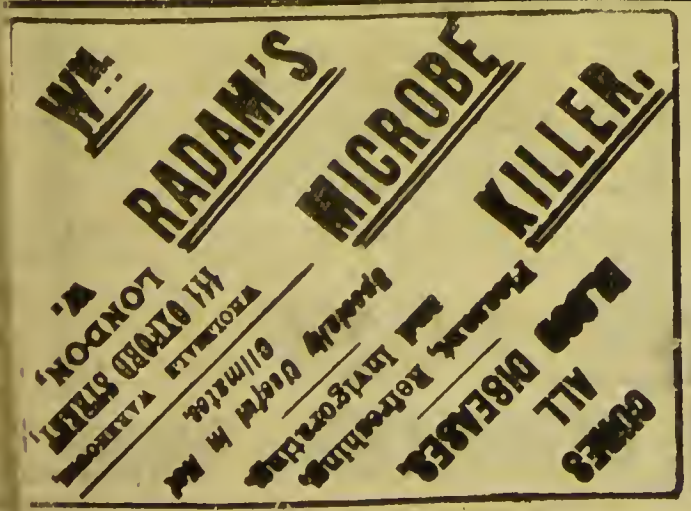


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